

# Small VRF system

for light commercial and home use



**AIRSTAGE™ J-II**

Variable Refrigerant Flow System



Meeting Various Needs with  
the FUJITSU GENERAL VRF AIRSTAGE Series



FUJITSU GENERAL LIMITED

# AIRSTAGE™ J-II from Small Office to Large Homes Appli

The AIRSTAGE J-II Series adopts the best technology and was designed with the greatest care to provide not only energy savings and comfort but also ease of design, installation, and maintenance. Fujitsu General provides air conditioning systems for a wide range of applications from small office buildings and stores to large houses.



**OUTDOOR UNITS**

- High Energy Saving
- More Design Flexibility
- More Comfort
- Easy Installation
- More Convenience
- Easy Maintenance

Various Line-up for each buildings

4HP AJ\*A36LALH  
5HP AJ\*A45LALH  
6HP AJ\*A54LALH

AJ\* : AJY (FUJITSU), AJH (GENERAL)

Providing the Maximum Satisfaction to All Customers

Building owners      Installers      End users      Service and Management companies

Wide lineup of indoor units and controllers to support a variety of properties.

## INDOOR UNITS



# Applications



Small Office



## CONTROLLERS



Central  
Remote Controller



Group  
Remote Controller



Touch Panel  
Controller



System Controller  
(Software)



Wireless  
Remote Controller



Simple  
Remote Controller



Wired  
Remote Controller

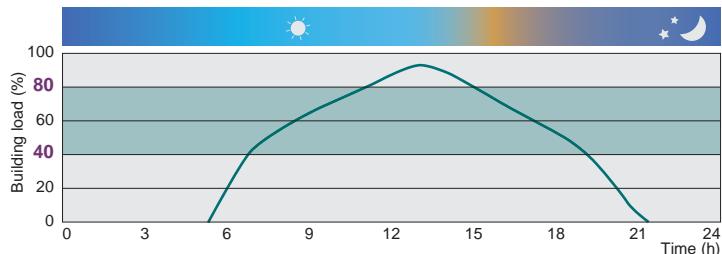
# High Energy Saving

## Efficiency in actual operation

The building load is the range of almost 40 % to 80%. Therefore, most air conditioners do not operate at maximum load, but operate at low to medium loads. Especially, for multi system, operation performance at partial load is important because all the air conditioners do not always operate all the time. Aiming at energy saving performance matched to actual operation, Fujitsu General has developed a high intermediate performance air conditioner corresponding not only to the rated performance at 100% load, but also to low to medium load



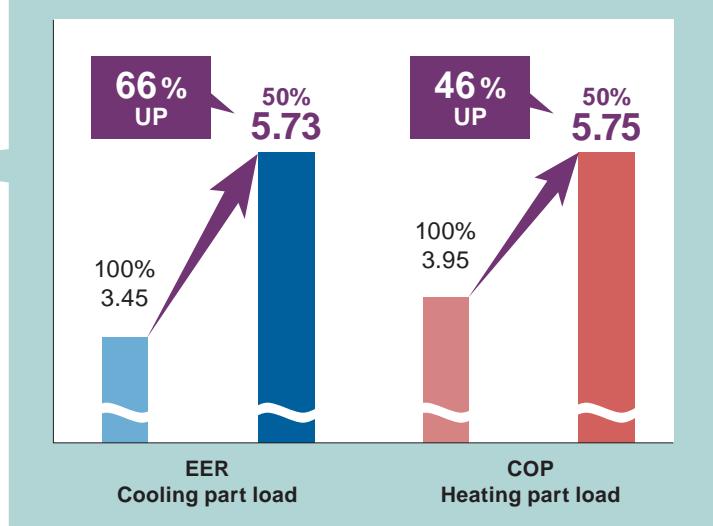
Load curve (a typical office building)



### High EER / COP



### High part load performance (6HP class)



Conditions : Connected indoor units: AUXA30LALH+AUXD24LALH

Cooling : indoor temp. of 27°CDB / 19°CWB, outdoor temp. of 35°CDB / 24°CWB

Heating : indoor temp. of 20°CDB / 15°CWB, outdoor temp. of 7°CDB / 6°CWB

# Advanced high efficiency technology



## Large propeller fan

High performance and low noise realized by large propeller and optimization of angle.



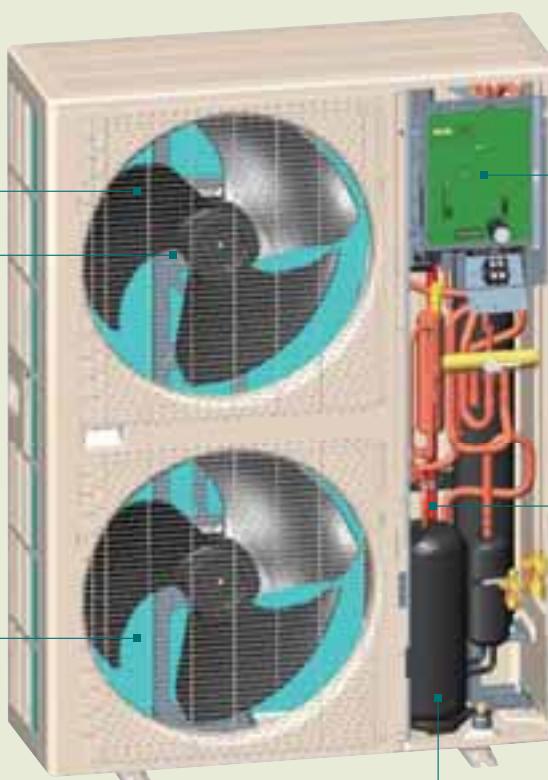
## DC fan motor

Miniaturized, low noise, high efficiency, multi-stage DC fan motor is mounted.



## Large heat exchanger

Heat exchange performance is substantially improved by mounting of 3-row large heat exchanger.



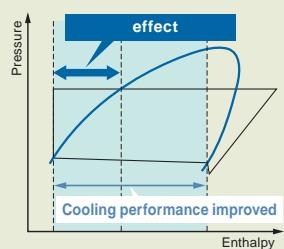
## DC inverter control

Efficiency is improved by mounting of new active filter module.



## Subcool heat exchanger

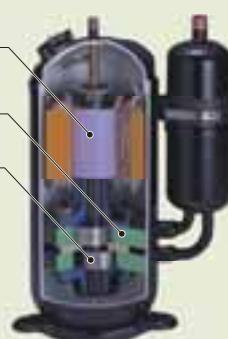
Cooling performance is improved by mounting of dual tube heat exchanger.



## High efficiency compressor motor

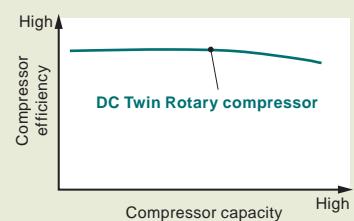
## Optimized refrigerant flow design

## Highly accurate parts



## DC twin rotary compressor

Efficiency in all load regions is good. Especially good performance from low to medium at normal operation.



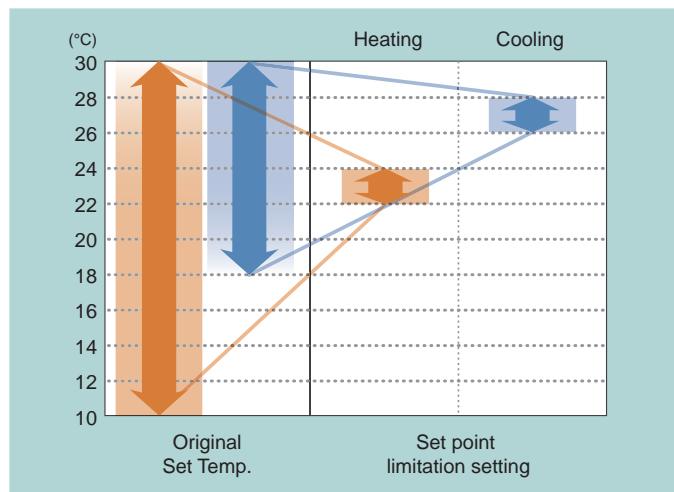
High Energy Saving

# Various Energy Saving Function

## Operation Performance is Efficiently Controlled.

### Room temperature set point limitation

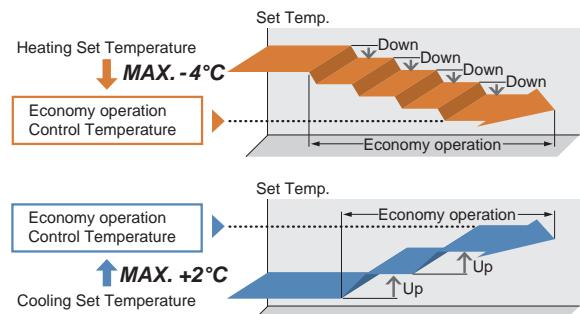
The minimum and maximum temperature range can be set.



Central Remote Controller

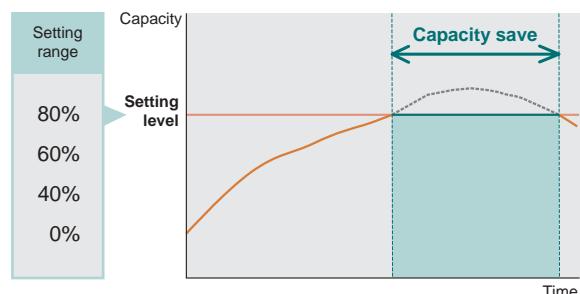
### Economy operation

The temperature setting is offset automatically over a certain period of time.



### Capacity save operation

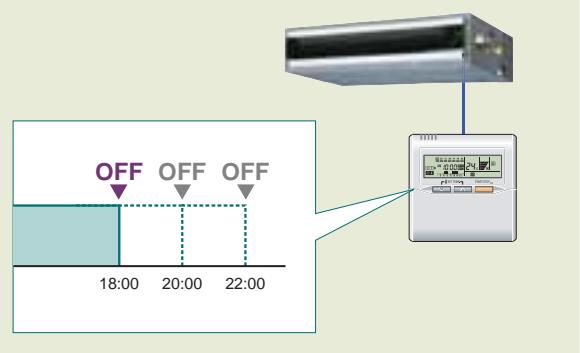
The power consumption at peak is cut down.



## Wasteful Operation is Prevented.

### Auto Off function

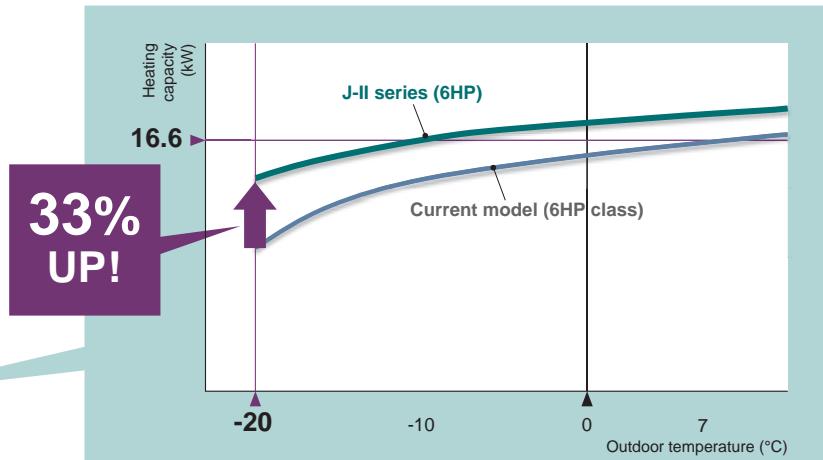
This prevents waste of energy.



# More Comfort

## Powerful Heating

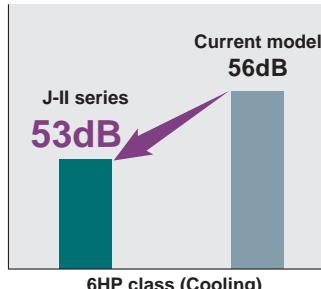
Heating capacity is improved at low outdoor temperature by our advanced technology.



## Low Noise Design

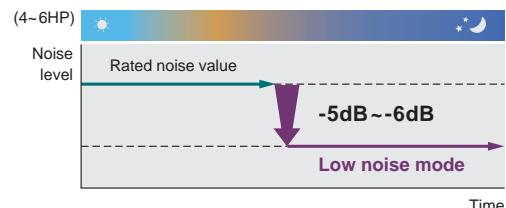
### Low noise design of outdoor unit

Significantly reduced noise by optimized airflow structure design of outdoor unit.



### Low noise mode

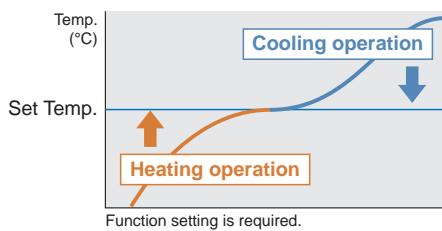
Outdoor unit can be switched to silent mode, depending on the installation environment.



## Various Comfort Control Function

### Easy auto changeover function

At the auto mode, cooling and heating mode is switched automatically to maintain the setting temperature.

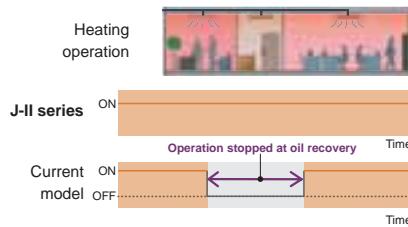


Function setting is required.

1 indoor unit (Master) can apply this function.

### Non-stop oil recovery operation

The product continues to operate without stopping the cooling or heating operation during oil recovery modes.



### Auto louver grill (Option for Slim Duct)

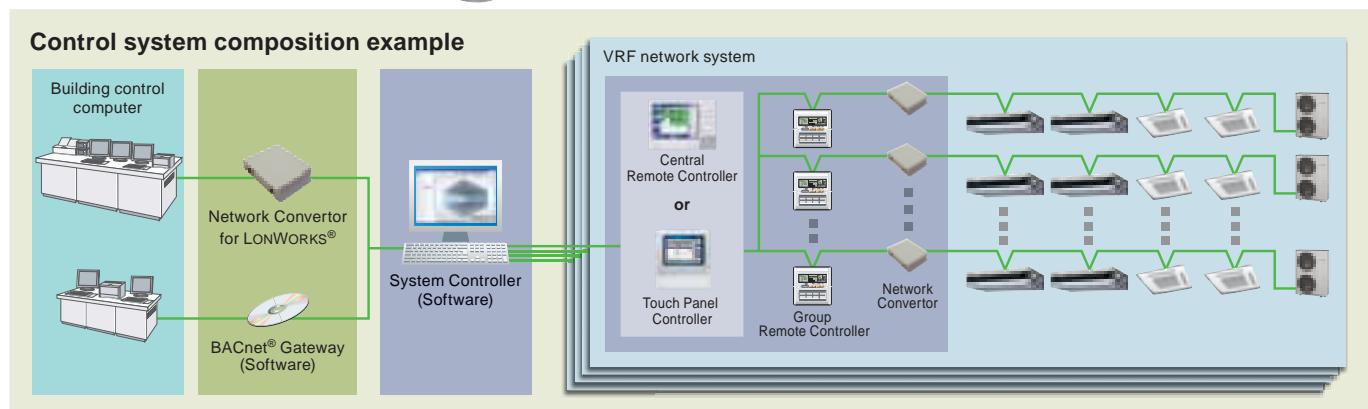
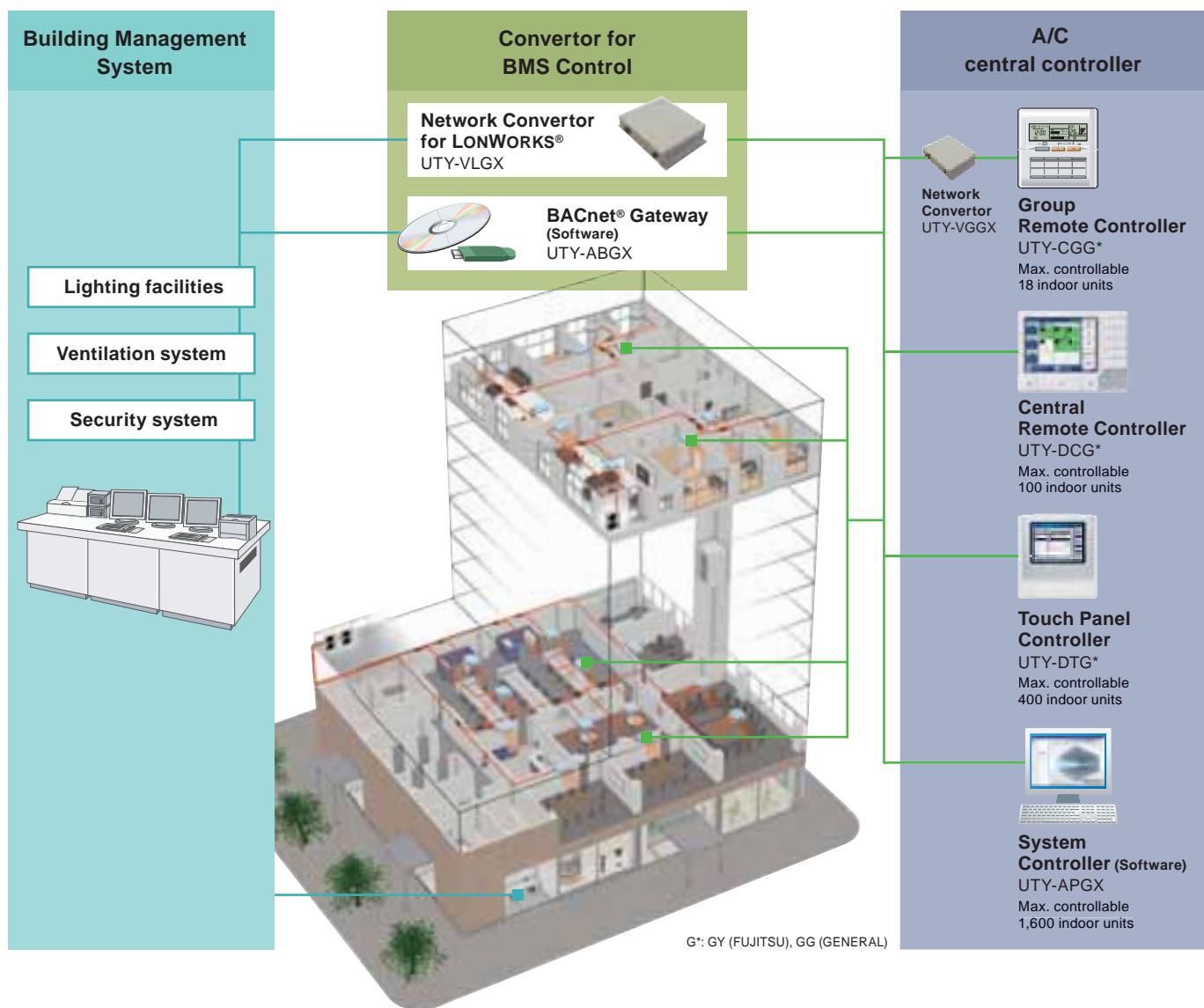
Auto louver grille provides comfort and efficient heating with louver controlled ductable outlet

#### With Auto Louver

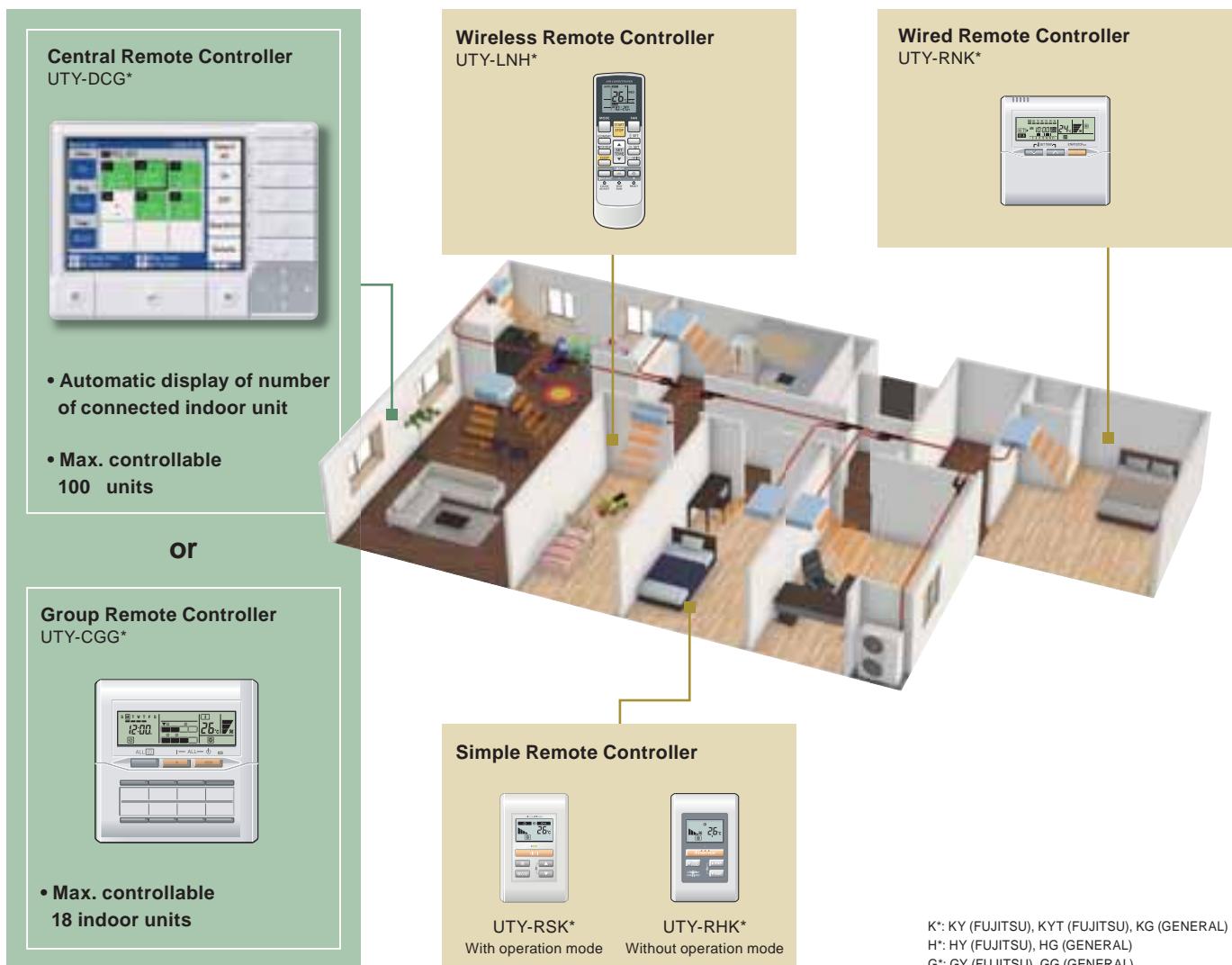


# More Convenience

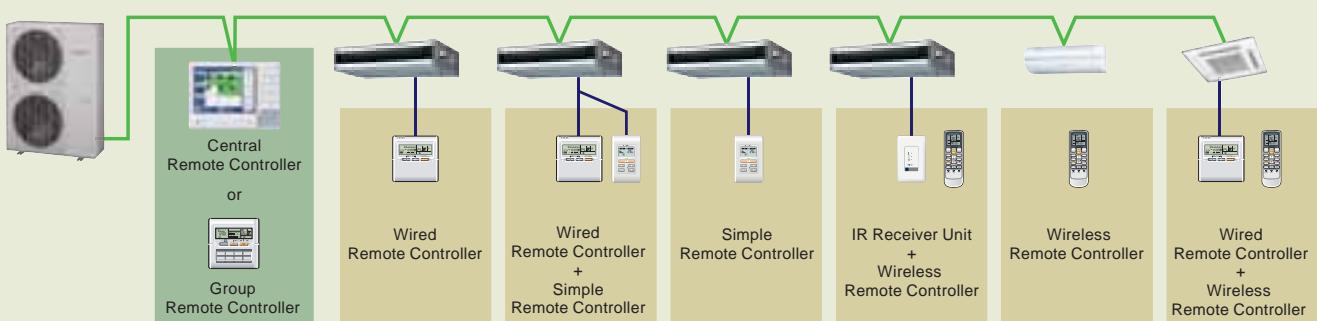
## Central Control of Small Office, Shop, etc.



# Individual and Central Control of Large Homes



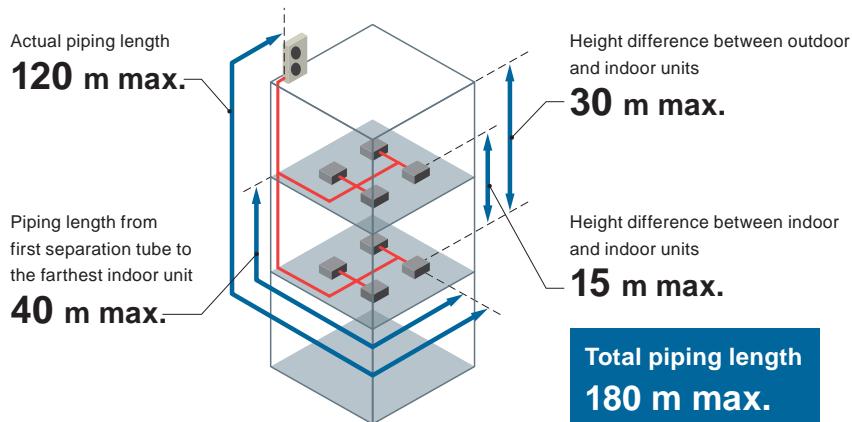
## Control system composition example



# More Design Flexibility

## Long Piping Length

Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 180 m. This opens up new possibilities in system design.



## High Capacity Connection

### Number of connectable indoor unit

4 HP	2 to 6 units	
5HP	2 to 8 units	
6 HP	2 to 9 units	

### Indoor unit

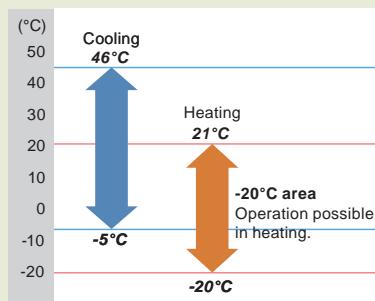
**12 types,  
52 models**

**Connectable  
indoor unit  
capacity range  
130 % max.**

## Wide operating range

Installation in extreme temperature conditions is possible due to an increase in operational range.

Cooling : -5°C~46°C  
Heating : -20°C~21°C

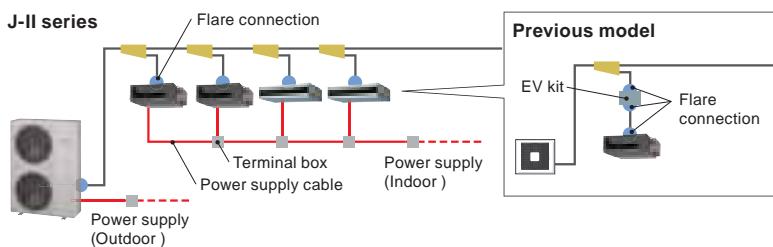


# Easy Installation

## Easier Installation

### Easy piping connection

Improvement of the reliability by decreasing the flare connection.



### Easy wiring connection

- Decreasing wiring mistakes by using non-polar 2 wires.(Remote controller cable is 3 wires)
- Improvement of wiring installation by common with V-II power supply method.

### Flexible installation of outdoor unit

Corresponds to the outdoor unit concentration installation.

Reduced installation intervals  
by front access



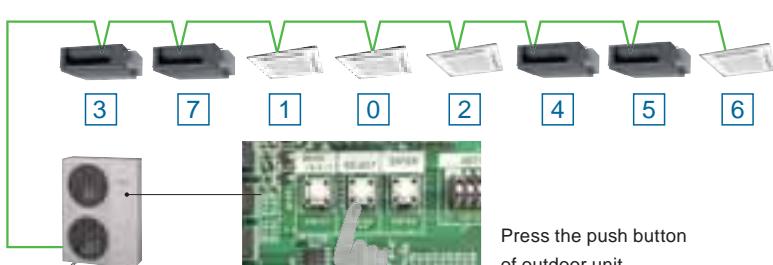
Flexible installation by  
4 way pipe direction



## Convenient Commissioning Support

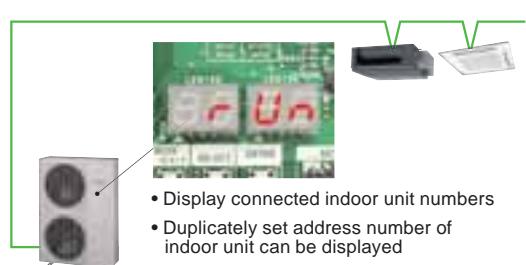
### Automatic address setting function

The address of each indoor unit can be automatically set by button switch of outdoor unit.



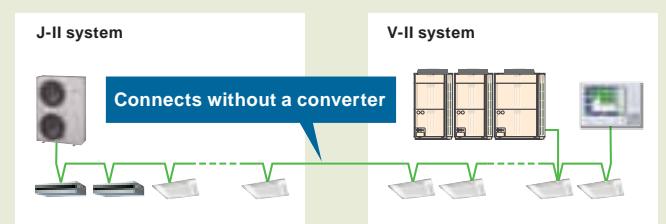
### Connection check function

Possible to confirm whether wiring connection and address setting are correct by check run function for a short time.



### Easy to connect with V-II communication system

It is possible to connect directly with the transmission cable of the V-II system without convertor.

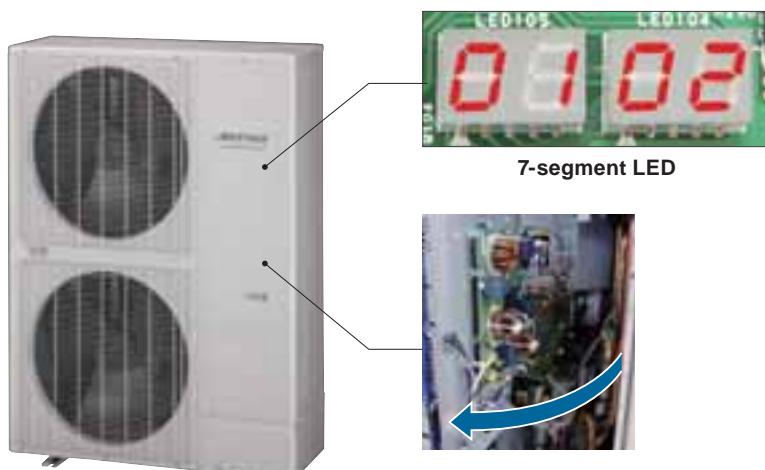


# Easy Maintenance

## Design for Easy Maintenance

### Easy to read 7-segment LED

Confirm detail operational and trouble status without using specific equipment



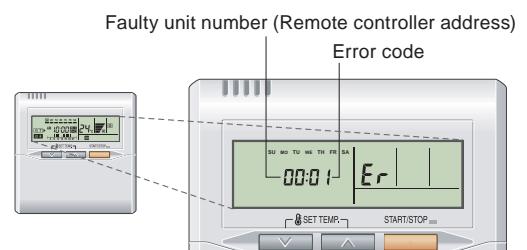
**Movable PCB panel**

Easier for maintenance work behind the PCB

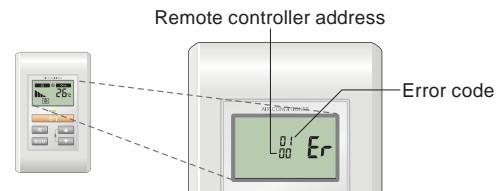
### Error status can be checked easily via the indoor unit wired controller

An error code is displayed on a liquid crystal screen.

#### Wired Remote Controller



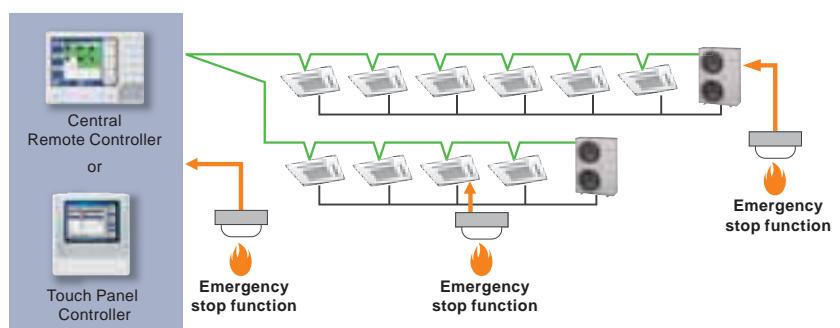
#### Simple Remote Controller



## Emergency Stop Function

Emergency alarm can be received by indoor, outdoor units, Central Remote Controller or Touch Panel Controller when they received it, all units will be stopped.

**Note :** In case of received Emergency alarm by Indoor / outdoor unit : All units connected within same refrigerant system will be stopped.  
 Central Remote Controller or Touch Panel Controller : all units connected within VRF network system with Central Remote Controller or Touch Panel Controller will be stopped.



## Trouble diagnosis by Service Tool

### Connection to Service Tool

- Detail operation status and recent error history can be checked and analyzed by using Service Tool.
- Last 5 min. operation memory can be also recorded.



# Specifications

Model name		AJ*A36LALH	AJ*A45LALH	AJ*A54LALH
Capacity range	HP	4	5	6
Maximum connectable indoor unit		6	8	9
Power source	1Ø, ~230V, 50Hz			
Capacity	Cooling	kW	11.2	14.0
	Heating		12.5	16.0
Input power	Cooling	kW	2.80	3.89
	Heating		2.76	3.81
EER	Cooling	W/W	4.00	3.60
COP	Heating		4.53	4.20
Air flow rate	High	m³/h	6,200	6,400
Sound pressure level	Cooling	dB(A)	50	51
	Heating		52	53
Heat exchanger fin	Blue fin			
Dimensions (HxWxD)	mm	1,334 x 970 x 370		
Weight	kg	117		
Refrigerant charge	kg	4.8	5.3	
Connection pipe diameter	Liquid	mm	9.52	
	Gas		15.88	19.05
Operation range	Cooling	°CDB	-5 to 46	
	Heating		-20 to 21	

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

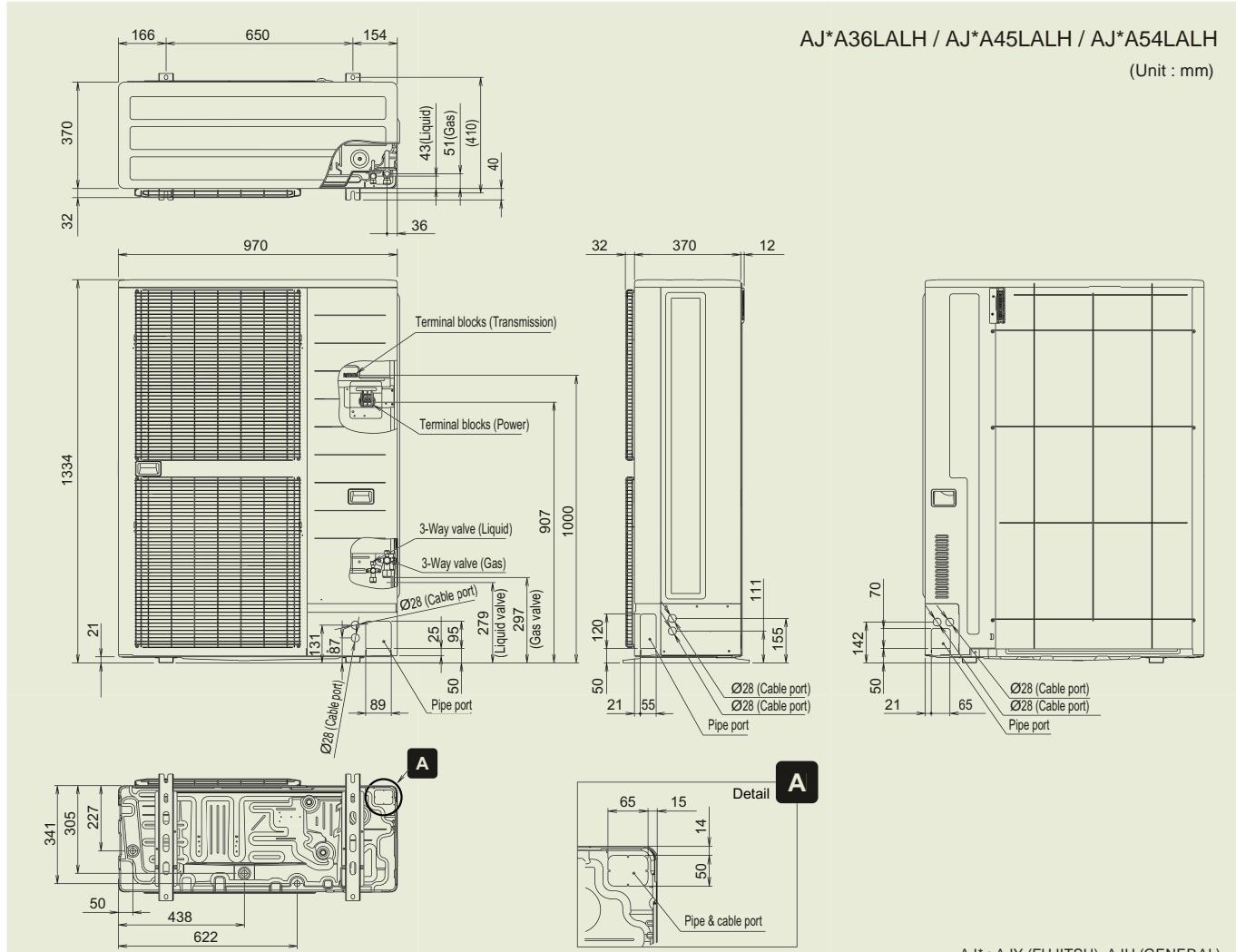
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.

The protective function might work when using it outside the operation range.

AJ\* : AJY (FUJITSU), AJH (GENERAL)

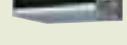
## Dimensions



AJ\* : AJY (FUJITSU), AJH (GENERAL)

## Indoor Unit Lineup

12 Types, 52 Models, Capacity range from 2.2kW to 14.0kW

Capacity range (kW)	2.2	2.8	3.6	4.5
Model code	7	9	12	14
<b>Compact Cassette</b>				
<b>Cassette</b>				
<b>Compact Duct</b>				
<b>Slim Duct (Drain pump internal)</b>				
<b>Low Static Pressure Duct</b>				
<b>Duct</b>				
<b>High Static Pressure Duct</b>				
<b>Floor / Ceiling</b>				
<b>Ceiling</b>				
<b>Compact Wall Mounted (EEV internal)</b>				
<b>Compact Wall Mounted (EEV external)</b>				
<b>Wall Mounted</b>				

\*: Y(FUJITSU), H(GENERAL)

Comprehensive range of indoor units of variety design and capacity ranges available which can be selected to suit any air conditioning needs.

5.6	7.1	9.0	11.2	12.5	14.0
18	24	30	36	45	54
					
AUXB18LALH	AUXB24LALH				
					
AUXD18LALH	AUXD24LALH	AUXA30LALH	AUXA36LALH	AUXA45LALH	AUXA54LALH
					
ARXB18LALH					
					
ARXD18LATH	ARXD24LATH				
					
	ARXB24LATH	ARXB30LATH	ARXB36LATH	ARXB45LATH	
					
	ARXA24LATH	ARXA30LATH	ARXA36LATH	ARXA45LATH	
					
			ARXC36LATH	ARXC45LATH	
					
AB*A18LBTH	AB*A24LBTH				
					
		AB*A30LBTH	AB*A36LBTH	AB*A45LBTH	AB*A54LBTH
					
AS*A18LACH	AS*A24LACH	AS*A30LACH			

## Compact Cassette

AUXB07LALH    AUXB14LALH  
 AUXB09LALH    AUXB18LALH  
 AUXB12LALH    AUXB24LALH



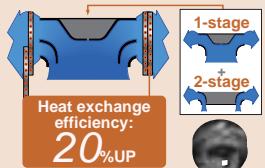
Grille is an option

Powerful wide air flow & Quiet operation

## High efficiency 2-stage turbo fan

### 2-stage turbo fan

A evenly spread air distribution across the heat exchanger is possible due to the new 2 stage turbo fan which produces two separate airflow streams.



### Previous turbo fan

In the case of a conventional fan, the air outlet range was narrow as the airflow moved to the motor side which meant the velocity of air passing through the heat exchanger was uneven.

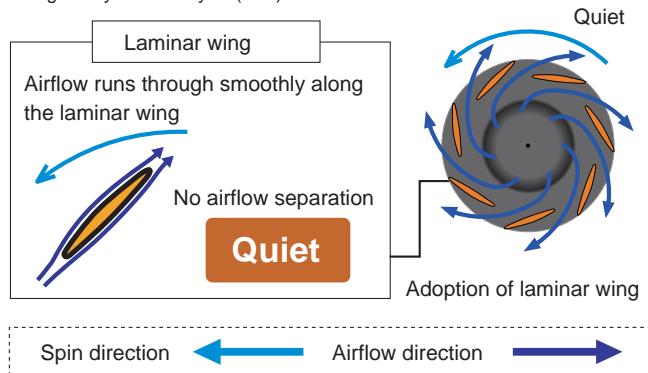


Wind velocity  
Fast  
Slow

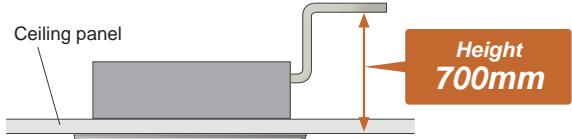
## Quiet quality

Optimization of wing form (laminar wing type) and wing number (7 blades each)

Designed by CFD-analysis (fluid) simulations



## High lift drain pump



## Optional parts

Air Outlet Shutter Plate: UTR-YDZB  
 Fresh Air Intake Kit: UTZ-VXAA  
 Insulation Kit For High Humidity: UTZ-KXGC

## Specifications

Model No.			AUXB07LALH	AUXB09LALH	AUXB12LALH	AUXB14LALH	AUXB18LALH	AUXB24LALH				
Power source		V/ø/Hz	1Ø, 230V ~, 50Hz									
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1				
	Heating		2.8	3.2	4.1	5.0	6.3	8.0				
Input power		W	25	25	29	35	36	84				
Air flow rate	High	m³/h	540	550	600	680	710	1,030				
	Med		450	450	530	590	580	830				
	Low		350	350	390	390	400	450				
Sound pressure level	High	dB(A)	34	35	37	38	41	50				
	Med		30	30	34	34	35	44				
	Low		25	25	27	27	27	30				
Dimensions (H x W x D)		mm	245 x 570 x 570									
Weight		kg	15			17						
Connection pipe diameter	Liquid (Flare)	mm	ø6.35			ø9.52						
	Gas (Flare)		ø12.70			ø15.88						
	Drain		ø25 (I.D.) ; ø32 (O.D.)									
Grille (option)	Model name		UTG-UFYC-W (FUJITSU brand); UTG-UFGC-W (GENERAL brand)									
	Dimensions (H x W x D)		50 x 700 x 700									
	Weight		2.6									

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.  
 Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.  
 Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.

## Cassette

AUXD18LALH    AUXA36LALH  
 AUXD24LALH    AUXA45LALH  
 AUXA30LALH    AUXA54LALH

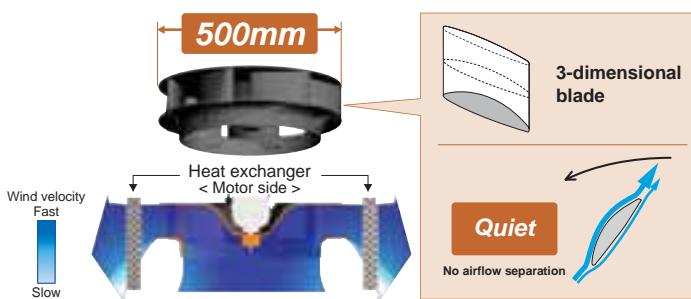


Grille is an option

Powerful, wide airflow and quiet operation

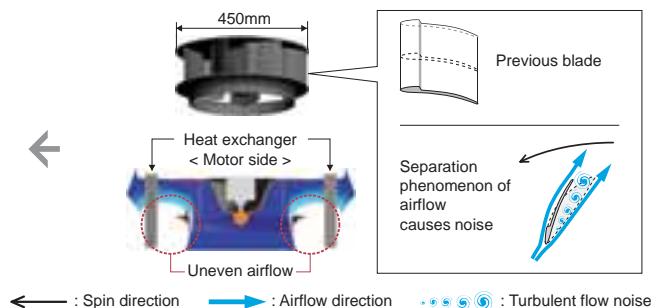
## High efficiency turbo fan with 3-dimensional blade

High efficiency airflow distribution has been achieved by the introduction of a 3-dimensional blade which increases the air passing over the heat exchanger.



### Previous turbo fan

Air passing through the heat exchanger was uneven and the air would only flow close to the ceiling.



## Improvement of the airflow distribution

The louvre design distributes air leaving a space between the chassis and the ceiling allowing far and wide air flow distribution.



## Optional parts

IR Receiver Kit :	UTY-LRH*B1
Air Outlet Shutter Plate :	UTR-YDZC
Panel Spacer :	UTG-BGYA-W
Insulation Kit for High Humidity :	UTZ-KXGA / UTZ-KXGB
Wide Panel :	UTG-AGYA-W
Fresh Air Intake Kit :	UTZ-VXGA
H* :	HY(FUJITSU), HG(GENERAL)

## Specifications

Model No.		AUXD18LALH	AUXD24LALH	AUXA30LALH	AUXA36LALH	AUXA45LALH	AUXA54LALH			
Power source		V/ø/Hz		1Ø, 230V ~, 50Hz						
Capacity	Cooling	kW	5.6	7.1	9.0	11.2	12.5			
	Heating		6.3	8.0	10.0	12.5	14.0			
Input power		W	39	46	59	80	99			
Air flow rate	High	m³/h	1,150	1,280	1,600	1,800	1,900			
	Med		940	1,040	1,300	1,300	1,370			
	Low		870	870	1,100	1,100	1,100			
Sound pressure level	High	dB(A)	36	38	40	44	46			
	Med		30	33	38	38	39			
	Low		29	29	33	33	33			
Dimensions (H x W x D)		mm	246 x 840 x 840		288 x 840 x 840					
Weight		kg	23		27					
Connection pipe diameter	Liquid (Flare)	mm	ø9.52							
	Gas (Flare)		ø15.88			ø19.05				
	Drain		ø25 (I.D.) ; ø32 (O.D.)							
Grille (option)	Model name		UTG-UGYA-W (FUJITSU brand); UTG-UGGA-W (GENERAL brand)							
	Dimensions (H x W x D)		50 x 950 x 950							
	Weight		5.5							

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.  
 Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.

## Compact Duct

ARXB07LALH ARXB14LALH  
ARXB09LALH ARXB18LALH  
ARXB12LALH

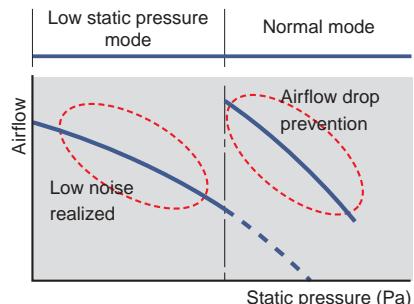


Small and compact indoor unit suitable for many applications

### Low noise level

A low noise level has been achieved for each capacity

Model	7	9	12	14	18
Static pressure range	Pa		0 to 50		
Noise level (Low speed)	dB(A)	24	27	25	30



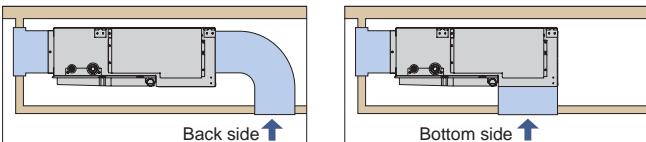
### Compact design

Ultra-slim duct air conditioner for easy installation



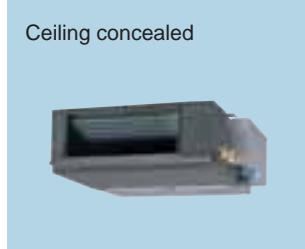
Slim size (217mm) allows installation even where the space behind the ceiling is narrow.

### Air-intake



Air-intake at back side makes it possible to reduce the noise effectively.

### Flexible installation



### Optional parts

Remote Sensor Unit : UTD-RS100  
IR Receiver Unit : UTB-\*WC  
Drain Pump Unit : UTZ-PX1BBA  
\*WC : YWC, TWC

## Specifications

Model No.	ARXB07LALH	ARXB09LALH	ARXB12LALH	ARXB14LALH	ARXB18LALH
Power source	V/φ/Hz		1Ø, 230V ~, 50Hz		
Capacity	Cooling	kW	2.2	2.8	3.6
	Heating		2.8	3.2	4.0
Input power	W		46	55	63
Air flow rate	High	m³/h	370	440	590
	Med		310	370	500
	Low		280	340	450
Static pressure range	Pa		0 to 50	0 to 50	0 to 50
			25	25	25
Sound pressure level <sup>*1</sup>	High	dB(A)	29	31	30
	Med		26	29	28
	Low		24	27	25
Dimensions (H x W x D)	mm		217 x 663 x 595		217 x 953 x 595
Weight	kg		18		25
Connection pipe diameter	Liquid (Flare)	mm		ø6.35	ø9.52
	Gas (Flare)			ø12.70	ø15.88
	Drain			ø25 (I.D.) ; ø32 (O.D.)	

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.

\*1: For the air-intake at bottom, the operation noise is larger than the value mentioned in the above table.

## Slim Duct

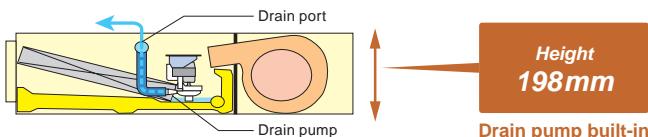
ARXD07LATH ARXD14LATH  
ARXD09LATH ARXD18LATH  
ARXD12LATH ARXD24LATH



• Slim design with drain pump • Increase static pressure range

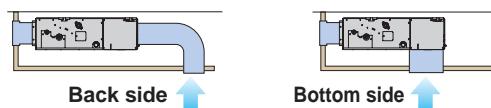
## Slim design

This model is slim design, it can install at the place where a ceiling is narrow.



## Air-intake

Air intake direction can be selected to match the installation site.



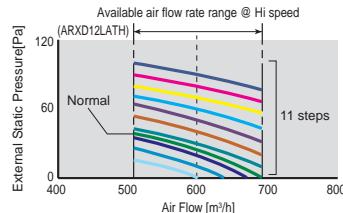
Depending on the installation site, air-intake at back side makes it possible to reduce the noise effectively.

## Selectable wide range static pressure

By using DC fan motor, it is possible to change the static pressure range 0 to 90Pa. The change of static pressure range is possible by remote controller.

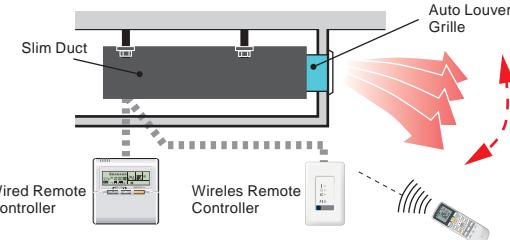


24 model is 0 to 50Pa



## Auto Louver Grille Kit (Option)

Simple flat Auto Louver will provide comfort airflow and harmonize with luxury interior.



## Flexible installation

Ceiling concealed



Floor concealed



## Optional parts

IR Receiver Unit:	UTB-*WC
Remote Sensor Unit:	UTD-RS100
Auto Louver Grille Kit	UTD-GXSA-W (for ARXD07/09/12/14LATH) UTD-GXSB-W (for ARXD18LATH) UTD-GXSC-W (for ARXD24LATH)
*WC : YWC, TWC	

## Specifications

Model No.		ARXD07LATH	ARXD09LATH	ARXD12LATH	ARXD14LATH	ARXD18LATH	ARXD24LATH
Power source		V/ø/Hz		1Ø, 230V ~, 50Hz			
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6
	Heating		2.8	3.2	4.0	5.0	6.3
Input power		W	44	50	54	92	83
Air flow rate	High	m³/h	550	600	600	800	940
	Med		490	550	510	710	840
	Low		440	480	450	610	750
Static pressure range		Pa	0 to 90	0 to 90	0 to 90	0 to 90	0 to 90
Standard static pressure			25	25	25	25	25
Sound pressure level <sup>*1</sup>	High	dB(A)	28	29	30	34	35
	Med		25	26	27	32	32
	Low		22	24	24	28	29
Dimensions (H x W x D)		mm	198 x 700 x 620			198 x 900 x 620	198 x 1,100 x 620
Weight		kg	18		19	23	27
Connection pipe diameter	Liquid (Flare)	mm	ø6.35			ø9.52	
	Gas (Flare)		ø12.70			ø15.88	
	Drain		ø25 (I.D.) ; ø32 (O.D.)				

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.

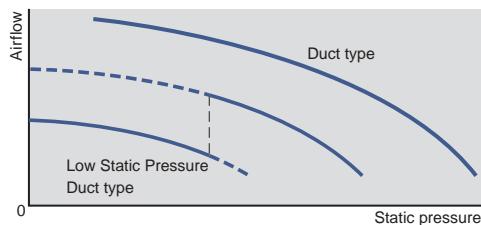
\*1: For the air-intake at bottom, the operation noise is larger than the value mentioned in the above table.

## Low Static Pressure Duct/Duct

Low Static Pressure Duct	Duct
<b>ARXB24LATH</b>	<b>ARXA24LATH</b>
<b>ARXB30LATH</b>	<b>ARXA30LATH</b>
<b>ARXB36LATH</b>	<b>ARXA36LATH</b>
<b>ARXB45LATH</b>	<b>ARXA45LATH</b>

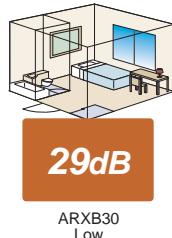


**Line-up of low-noise and high-power models, compatible with a wide range of static pressure**



### Low Static Pressure Duct type Optimum model for hotels or bedrooms

An ultra low-noise model that achieves a quiet interior. Perfect for hotels or bedrooms with limited air duct installation space. Two different levels can be selected according to the static pressure range.



**29dB**  
ARXB30  
Low

### Duct type

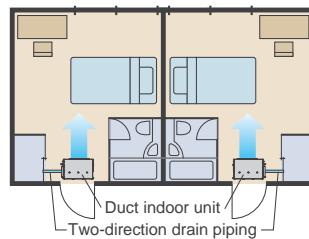
### Powerful model with a flexible design

With a powerful motor, appropriate for a wide range of static pressure. Flexible air duct installation is possible in a large space such as an office.



**Max.  
150Pa**

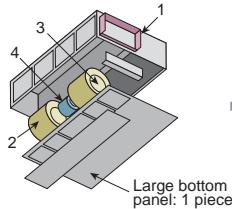
### Two-direction drain piping



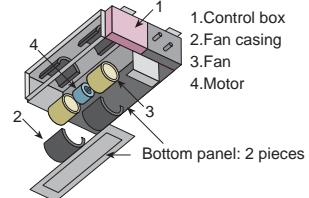
### Easy maintenance

See below for the case of rear suction type

#### Previous model



#### New model



- 1. Control box
- 2. Fan casing
- 3. Fan
- 4. Motor

- Large bottom panel: 1 piece
- Bottom panel: 2 pieces

### Optional parts

Remote Sensor Unit : UTD-RS100

Flange (Round) : UTD-RF204

Long-Life Filter : UTD-LF25NA

IR Receiver Unit : UTB-\*WC

Flange (Square) : UTD-SF045T

Drain Pump Unit : UTZ-PX1NBA

\*WC : YWC, TWC

## Specifications

Model No.	ARXB24LATH	ARXB30LATH	ARXB36LATH	ARXB45LATH	ARXA24LATH	ARXA30LATH	ARXA36LATH	ARXA45LATH	
Power source	V/ø/Hz	1Ø, 230V ~, 50Hz				1Ø, 230V ~, 50Hz			
Capacity	Cooling	kW	7.1	9.0	11.2	12.5	7.1	9.0	
	Heating		8.0	10.0	12.5	14.0	8.0	10.0	
Input power	W	145	198	253	338	190	188	312	
Air flow rate	High	m³/h	1,100	1,410	1,710	1,970	1,280	1,280	
	Med		920	1,280	1,600	1,790	1,210	1,210	
	Low		810	1,150	1,470	1,670	1,130	1,130	
Static pressure range	Pa	0 to 80	0 to 80	0 to 80	0 to 80	30 to 150	30 to 150	30 to 150	
Standard static pressure		40	50	50	60	100	100	100	
Sound pressure level	High	dB(A)	31	34	37	41	38	40	
	Med		27	32	35	38	36	38	
	Low		25	29	33	36	34	36	
Dimensions (H x W x D)	mm	270 x 1,135 x 700				270 x 1,135 x 700			
Weight	kg	43	45		43	45			
Connection pipe diameter	Liquid (Flare)	mm	ø9.52				ø9.52		
	Gas (Flare)		ø15.88		ø19.05		ø15.88		ø19.05
	Drain		ø25 (I.D.) ; ø32 (O.D.)				ø25 (I.D.) ; ø32 (O.D.)		

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.

## High Static Pressure Duct

ARXC36LATH

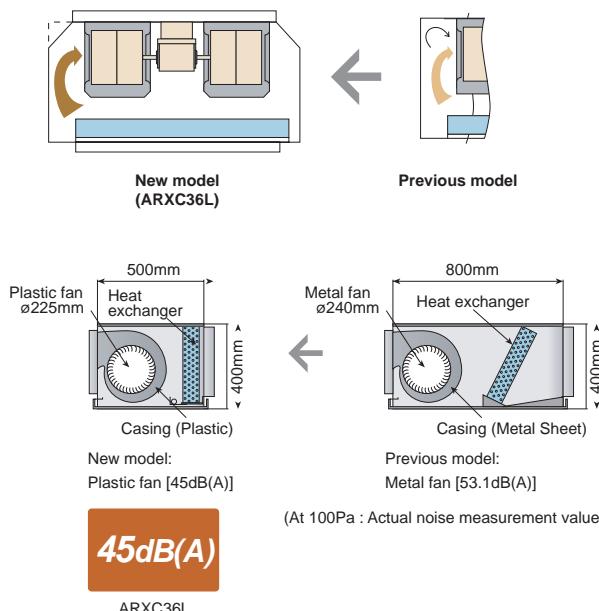
ARXC45LATH



These indoor units allow for high airflow quantities

### Low noise design

Cutting off the corners of the conventional indoor unit front panel and fan casing, has enabled less turbulent air flow. Low noise is realized by adopting a plastic case and a plastic fan.

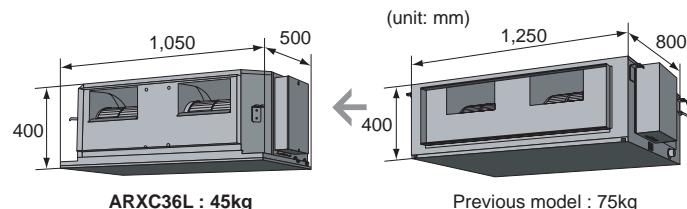


### Easy installation (Compact size & Lightweight)

A compact size and lightweight indoor unit has been developed by reducing the basic chassis and the overall material weight.

**Volume  
47.5%  
down**

**Weight  
40%  
down**



### Optional parts

Long-Life Filter : UTD-LF60KA  
IR Receiver Unit : UTB-\*WC  
Remote Sensor Unit : UTD-RS100  
\*WC : YWC, TWC

## Specifications

Model No.		ARXC36LATH		ARXC45LATH
Power source		V/ø/Hz		
Capacity	Cooling	kW	11.2	12.5
	Heating		12.5	14.0
Input power		W	405	427
Air flow rate	High	m³/h	2,600	3,500
	Med		1,950	3,000
	Low		1,450	2,460
Static pressure range		Pa	100 to 200	100 to 250
Standard static pressure			100	100
Sound pressure level	High	dB(A)	45	49
	Med		38	45
	Low		32	42
Dimensions (H x W x D)		mm	400 x 1,050 x 500	
Weight		kg	45	47
Connection pipe diameter	Liquid (Flare)	mm	ø9.52 (Flare)	
	Gas (Flare)		ø19.05 (Flare)	
	Drain		ø25 (I.D.) ; ø32 (O.D.)	

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.  
Heating : Indoor temperature of 20°CDB / 15°CWB, and outdoor temperature of 7°CDB / 6°CWB.  
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.

## Floor / Ceiling Type

**AB\*A12LBTH**  
**AB\*A14LBTH**  
**AB\*A18LBTH**  
**AB\*A24LBTH**



The slim and lightweight design allow the unit to be suspended from the ceiling or installed on the floor. This type suits many room designs

### Flexible installation

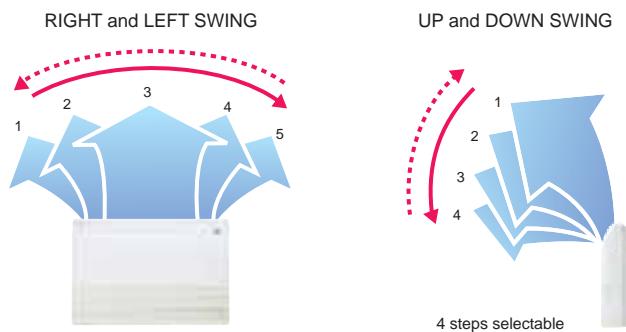
#### Example for floor installation

Floor console



### Double auto swing

A combination of up/down and right/left directional swing allows three-dimensional air direction control.



### Easy maintenance

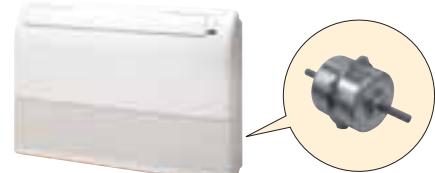
#### Example for ceiling installation

Under ceiling



### High power DC fan motor

- High power
- Wide rotation range
- High efficiency



### Compact design

Symmetrical, slim and compact design.



## Specifications

Model No.		AB*A12LBTH	AB*A14LBTH	AB*A18LBTH	AB*A24LBTH
Power source		V/ø/Hz		1Ø, 230V ~, 50Hz	
Capacity	Cooling	kW	3.6	4.5	5.6
	Heating		4.0	5.0	6.3
Input power		W	30	42	74
Air flow rate	High	m³/h	660	780	1,000
	Med		570	640	720
	Low		490	550	580
Sound pressure level	High	dB(A)	36	40	46
	Med		32	36	39
	Low		28	34	35
Dimensions (H x W x D)		mm	199 x 990 x 655		
Weight		kg	25	27	
Connection pipe diameter	Liquid (Flare)	mm	ø6.35		ø9.52
	Gas (Flare)		ø12.70		ø15.88
	Drain		ø25 (I.D.) ; ø32 (O.D.)		

AB\* : ABY(FUJITSU), ABH(GENERAL)

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.

Voltage : 230 [V].

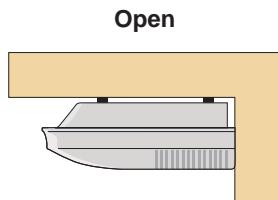
## Ceiling Type

**AB\*A30LBTH**  
**AB\*A36LBTH**  
**AB\*A45LBTH**  
**AB\*A54LBTH**

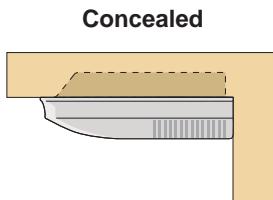


Easily concealed in any installation

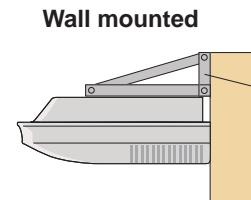
### Installation



General installation pattern which suspends the indoor unit from the ceiling.



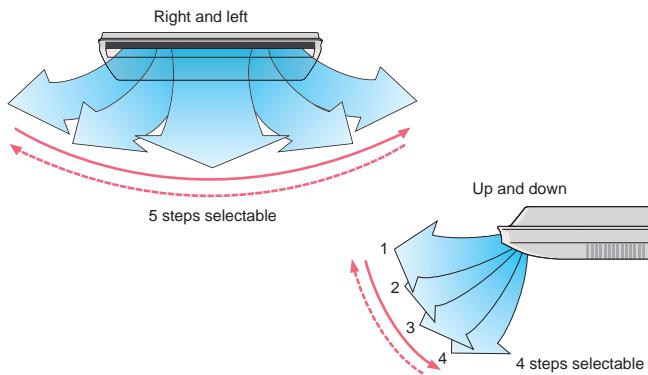
Installation pattern where part of the indoor unit is embedded into the ceiling.



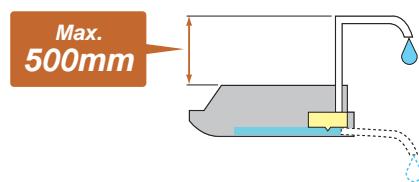
Installation which fixes the indoor unit to the wall by the use of wall brackets (Field supplied). This type of installation can be used when the ceiling space is insufficient.

### Double auto swing and wide airflow

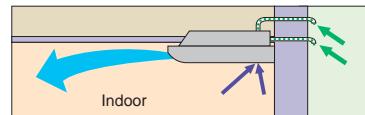
Auto airflow direction and auto swing



### Condensate lift-up mechanism (Option)



### Fresh air intake



### Optional parts

Drain Pump Unit : UTR-DPB24T  
 Flange : UTD-RF204

## Specifications

Model No.		AB*A30LBTH	AB*A36LBTH	AB*A45LBTH	AB*A54LBTH
Power source		V/ø/Hz		1Ø, 230V ~, 50Hz	
Capacity	Cooling	kW	9.0	11.2	12.5
	Heating		10.0	12.5	14.0
Input power		W	66	85	131
Air flow rate	High	m³/h	1,630	1,690	2,010
	Med		1,370	1,400	1,600
	Low		1,140	1,170	1,230
Sound pressure level	High	dB(A)	42	45	48
	Med		38	38	42
	Low		33	34	35
Dimensions (H x W x D)		mm	240 x 1,660 x 700		
Weight		kg	47	48	
Connection pipe diameter	Liquid (Flare)	mm	ø9.52		
	Gas (Flare)		ø15.88	ø19.05	
	Drain		ø25 (I.D.) ; ø32 (O.D.)		

AB\* : ABY(FUJITSU), ABH(GENERAL)

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.

Voltage : 230 [V].

## Compact Wall Mounted Type

EEV internal	EEV external
<b>AS*A07LACH</b>	<b>AS*E07LACH</b>
<b>AS*A09LACH</b>	<b>AS*E09LACH</b>
<b>AS*A12LACH</b>	<b>AS*E12LACH</b>
<b>AS*A14LACH</b>	<b>AS*E14LACH</b>



Simple design with energy saving.

### Compact design

New model



### More Comfort & Convenience

- Powerful cooling & heating by using DC fan motor
- Auto-restart function memorizes the operating mode as before, once the power supply is restored.
- Comfortable timer (ON, OFF, PROGRAM, SLEEP)

### Air conditioner filter features



**Long-life\***  
ion deodorization filter

The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic.

\*The filter can be used for approx. 3 years if it is washed under water to restore its surface action when it is dirty.



**Apple-catechin filter**

Fine dust, invisible mold spores, and harmful microorganisms are absorbed onto the filter by static electricity, and further growth is inhibited and deactivated by the polyphenol ingredient extracted from apples.

### Easy maintenance

**Removable & washable panel**



### Specifications

Model No.		AS*A07LACH	AS*A09LACH	AS*A12LACH	AS*A14LACH	AS*E07LACH	AS*E09LACH	AS*E12LACH	AS*E14LACH	
Power source	V/φ/Hz	1Ø, 230V ~, 50Hz						1Ø, 230V ~, 50Hz		
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	2.2	2.8	3.6	4.5
	Heating		2.8	3.2	4.1	5.0	2.8	3.2	4.1	5.0
Input power	W	16	16	19	30	15	16	20	28	
Air flow rate	High	m³/h	490	500	560	670	490	500	560	680
	Med		450	450	480	490	450	450	480	490
	Low		370	370	420	420	370	370	420	420
Sound pressure level	High	dB(A)	35	36	39	44	34	35	38	43
	Med		33	33	35	37	32	32	34	35
	Low		27	27	31	32	26	26	30	30
Dimensions (H x W x D)	mm	275 x 790 x 215				275 x 790 x 215				
Weight	kg	9				9				
Connection pipe diameter	Liquid (Flare)	mm	ø6.35				ø6.35			
	Gas (Flare)		ø12.70				ø12.70			
	Drain		ø13.8(I.D.) ; ø15.8-ø16.7(O.D.)				ø13.8(I.D.) ; ø15.8-ø16.7(O.D.)			
EV Kit (option)		-				UTR-EV09XB				
AS* : ASY(FUJITSU), ASH(GENERAL) Note : Specifications are based on the following conditions.										

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

Heating : Indoor temperature of 20°CDB / 15°CWB, and outdoor temperature of 7°CDB / 6°CWB.

Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.

Voltage : 230 [V].

## Wall Mounted Type

AS\*A18LACH

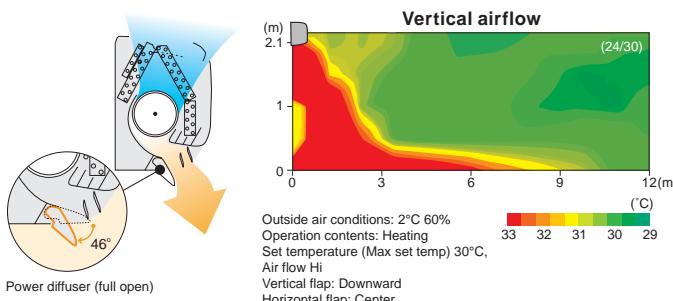
AS\*A24LACH

AS\*A30LACH

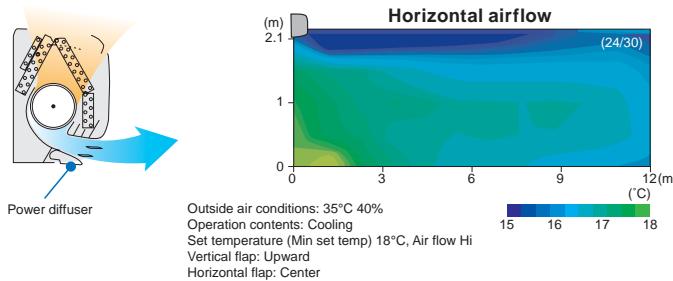


Simple & Elegant Appearance Design

### “Vertical airflow” provides powerful floor level heating



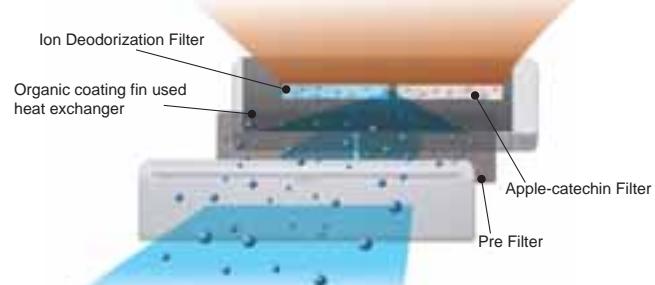
### “Horizontal airflow” does not blow cool air directly at the occupants in the room



### Easy maintenance

Simplification of drain pan cleaning improves maintenance-ability.

### Air conditioner filter features



Antibacterial deodorizing pre-filter with special ceramic powder



The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic.

(\*The filter can be used for approx. 3 years if it is washed under water to restore its surface action when it is dirty.)

Using different filters at both sides



Fine dust, invisible mold spores, and harmful microorganisms are absorbed onto the filter by static electricity, and further growth is inhibited and deactivated by the polyphenol ingredient extracted from apples.

## Specifications

Model No.		AS*A18LACH		AS*A24LACH		AS*A30LACH			
Power source		V/ø/Hz		1Ø, 230V ~, 50Hz					
Capacity	Cooling	kW	5.6	7.1	8.0				
	Heating		6.3	8.0	9.0				
Input power		W	35	64	91				
Air flow rate	High	m³/h	840	1,100	1,240				
	Med		770	910	980				
	Low		690	730	770				
Sound pressure level	High	dB(A)	41	48	52				
	Med		39	43	45				
	Low		35	35	35				
Dimensions (H x W x D)		mm	320 x 998 x 228						
Weight		kg	15						
Connection pipe diameter	Liquid (Flare)	mm	ø9.52						
	Gas (Flare)		ø15.88						
	Drain		ø12 (I.D.) ; ø16 (O.D.)						

AS\* : ASY(FUJITSU), ASH(GENERAL)

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

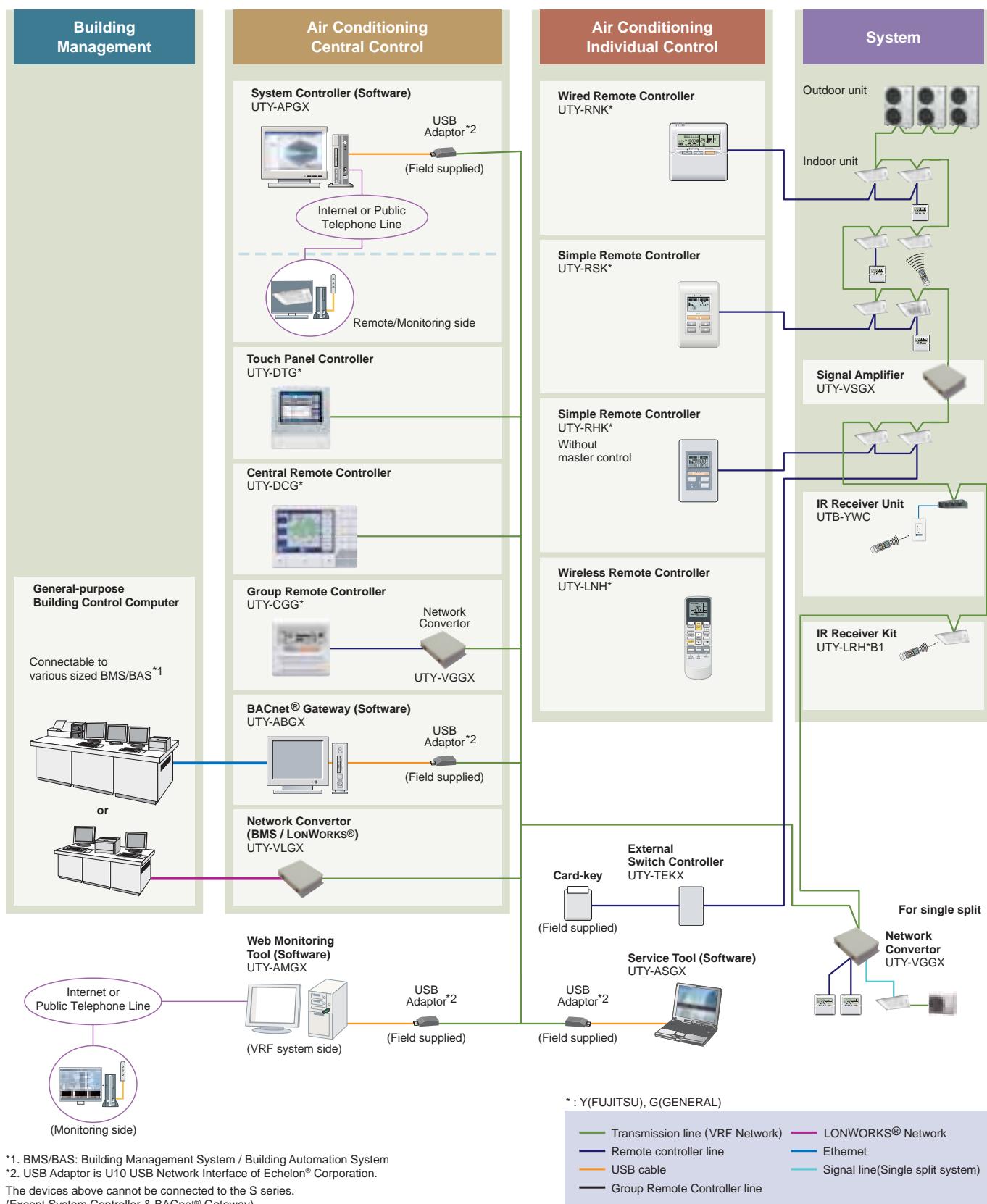
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.

Voltage : 230 [V].

## Control Systems

### System diagram

The V-II system supports every users needs by offering a variety of Control systems, including individual control, central control and building management control options.



## Comparison table of Controllers

Item		Wired Remote Controller	Simple Remote Controller	Simple Remote Controller <sup>*1</sup>	Wireless Remote Controller	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller Software
Model name		UTY-RHK*	UTY-RSK*	UTY-RHK*	UTY-LNH*	UTY-CGG*	UTY-DCG*	UTY-DTG*	UTY-APGX
Max. controllable remote controller groups	1	1	1	1	8	100	400	1600	
Max. controllable indoor units	9 <sup>*2</sup>	9 <sup>*2</sup>	9 <sup>*2</sup>	9 <sup>*2</sup>	18 <sup>*2</sup>	100	400	1600	
Max. controllable groups	—	—	—	—	—	16	400	1600	
Air conditioning control function	On / Off	●	●	●	●	●	●	●	●
	Operation mode setting	●	●	—	●	●	●	●	●
	Fan speed setting	●	●	●	●	●	●	●	●
	Room temp. setting	●	●	●	●	●	●	●	●
	Room temp. set point limitation	—	—	—	—	—	●	●	●
	Test operation	●	●	—	●	—	●	●	—
	Up/down air direction flap setting	●	—	—	●	—	●	●	●
	Right/left air direction flap setting	●	—	—	●	—	●	●	●
	Group setting	—	—	—	—	—	●	●	●
	RC prohibition	—	—	—	—	—	●	●	●
Display	Anti freeze setting	—	—	—	—	—	●	●	●
	Economy mode setting	●	—	—	●	—	●	●	●
	Failure	●	●	●	—	●	●	●	●
	Defrosting	●	●	●	—	—	●	●	●
	Current time	●	—	—	●	●	●	●	●
	Day of week	●	—	—	—	●	—	●	●
	R.C. prohibition	●	●	●	—	—	●	●	●
Timer	Cooling/heating priority	●	●	●	—	●	●	●	●
	Address display	●	●	●	—	●	●	●	●
	Schedule timer	Period	Week	—	—	Week	Week	Year	Year
	On/off per day	4	—	—	—	4	20	20	72
	On/off per week	28	—	—	—	28	140	140	504
	On/off timer	●	—	—	●	—	—	—	—
	Sleep timer	—	—	—	●	—	—	—	—
Control	Program timer	—	—	—	●	—	—	—	—
	Day off	●	—	—	—	—	●	●	●
	Min. unit of timer setting (Minutes)	30	—	—	5	10	10	10	10
	Status monitoring system	—	—	—	—	—	●	●	●
	Electricity charge calculation	—	—	—	—	—	—	—	●
	Error history	●	●	●	—	●	●	●	●
	Emergency stop	—	—	—	—	—	● <sup>*3</sup>	● <sup>*3</sup>	—
	Control via internet	—	—	—	—	—	—	—	●
	E-mail notification for malfunction	—	—	—	—	—	—	—	●

K\*:KY(FUJITSU), KYT(FUJITSU), KG(GENERAL), H\*:HY(FUJITSU), HG(GENERAL), G\*:GY(FUJITSU), GG(GENERAL)

\*1 "Operation mode" setting is not available for this model.

\*2 In the case of connection constitution for only J-II.

\*3 This function is available only through external input. control.

## Wired Remote Controller

### UTY-RNK\*

The room temperature can be controlled by detecting the temperature accurately from the built-in sensor

- Simple operation with Built-in Weekly / Daily Timer.
- Control up to 9 indoor units.
- Up to 2 wired remote controllers can be connected to a single indoor unit.

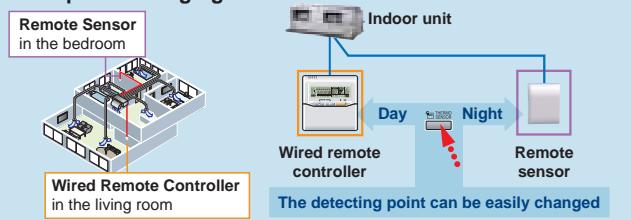
Max. controllable  
9  
indoor units



## Accurate and comfortable

Indoor temperature can be detected accurately by the inclusion of a thermo sensor in the body of the wired controller. This new wired remote controller and the optional remote sensor allows flexibility in sensor location, suitable for all requirements.

### Example of changing sensor



Displayed temperature is set temperature.

## Built-in timers

**Weekly timer:** Possible to set ON/OFF time to operate twice each day of the week.

**Setback timer:** Possible to set temperature for two times spans and for each day of the week.

At "Weekly timer" + "Set back timer" setup

## Diagnosis check function

Two methods are available for determining the cause of failure in the event of a malfunction occurs:

## Simple installation

Components are compatible with standard switch boxes. Flat back surface allows to be installed wherever it is needed.

## Simple Remote Controller

### UTY-RSK\*

### UTY-RHK\* (Without ability to change operation mode)

Compact remote controller provides access to basic functions

- Up to 9 indoor units can be controlled with one remote controller.
- Suitable for hotels or offices as it is easily operated with no complex functions.

Max. controllable  
9  
indoor units



UTY-RSK\*



UTY-RHK\*  
Without ability to  
change operation mode

## User-friendly operation

- A large On / Off button is provided in the centre of the remote controller for easy operation.
- Background light enables easy operation in a darkened room.
- Following an error display, diagnostics can be carried out on the controller.



## Functions

Model	UTY-RSK*	UTY-RHK*
On / Off	●	●
Fan control	●	●
Operation mode	●	— *1
Room temp. setting	●	●

\*1: "Operation mode" setting is not available. It is recommended to use together with other type controller.

## Specifications

Model No.	UTY-RNK*	UTY-RSK*	UTY-RHK*
Power Source	DC 12V	DC 12V	DC 12V
Dimensions (H x W x D) (mm)	120 x 120 x 18	120 x 75 x 14	120 x 75 x 14
Weight (g)	160	90 (100 : UTY-RSKYT)	90 (100 : UTY-RHKYT)

DC12V is supplied by the indoor unit.

K\*: KY(FUJITSU), KYT(FUJITSU), KG(GENERAL)

## Wireless Remote Controller

### UTY-LNH\*

Simple and sophisticated operations  
with a choice of 4 daily timers

•A single controller controls up to 9 indoor units.

Max. controllable  
**9**  
indoor units

Selectable  
**4**  
daily timers



UTY-LNH\*

## Built-in timers

Select from 4 different timer programs:

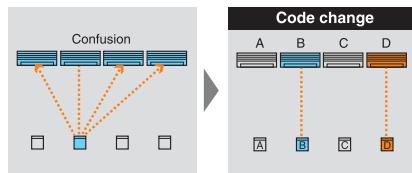
On / Off / Program / Sleep

**Program timer:** The program timer operates the ON and OFF timer once within a 24 hour period.

**Sleep timer:** The sleep timer function automatically corrects the set temperature according to the time setting to prevent excessive cooling or heating during sleep hours.

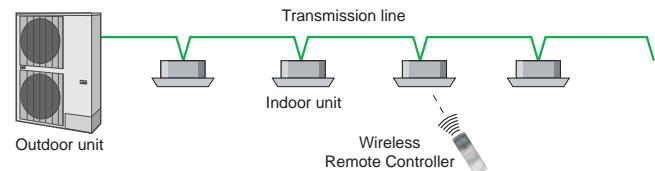
## Easy operation setting

Code selector switch  
prevents indoor unit  
mix-up. (Up to 4  
codes can be set.)



## System addressing

During installation work, system addressing can be performed using the Wireless Remote Controller, thus eliminating manual switch setting.



Wide and precise

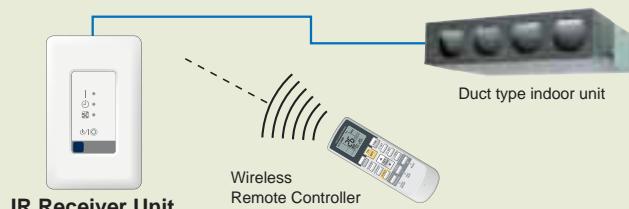


## IR Receiver Unit

### UTB-\*WC

Necessary to control for all duct type by  
Wireless Remote Controller

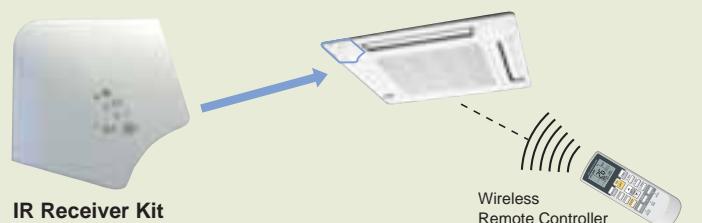
\*WC : YWC, TWC



## IR Receiver Kit

### UTY-LRH\*B1

Cassette type indoor unit can be controlled  
with Wireless Remote Controller



## Specifications

Model No.	UTY-LNH*	UTB-*WC	UTY-LRH*B1
Battery or Power source	1.5V (R03 / LR03 / AAA) x 2	DC 12V	DC 12V
Dimensions (H x W x D) (mm)	158 x 56 x 20	122 x 60 x 26.5	213.8 x 213.8 x 25.7
Weight (g)	70	150	140

DC12V is supplied by the indoor unit.

H\*: HY(FUJITSU), HG(GENERAL)

## Group Remote Controller

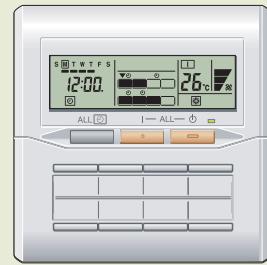
### UTY-CGG\*

#### Group control of indoor units with simple operation

- Up to 8 remote controller groups can be controlled by one Group Remote Controller.
- Up to 64 Group Remote Controllers can be connected in one VRF network system.

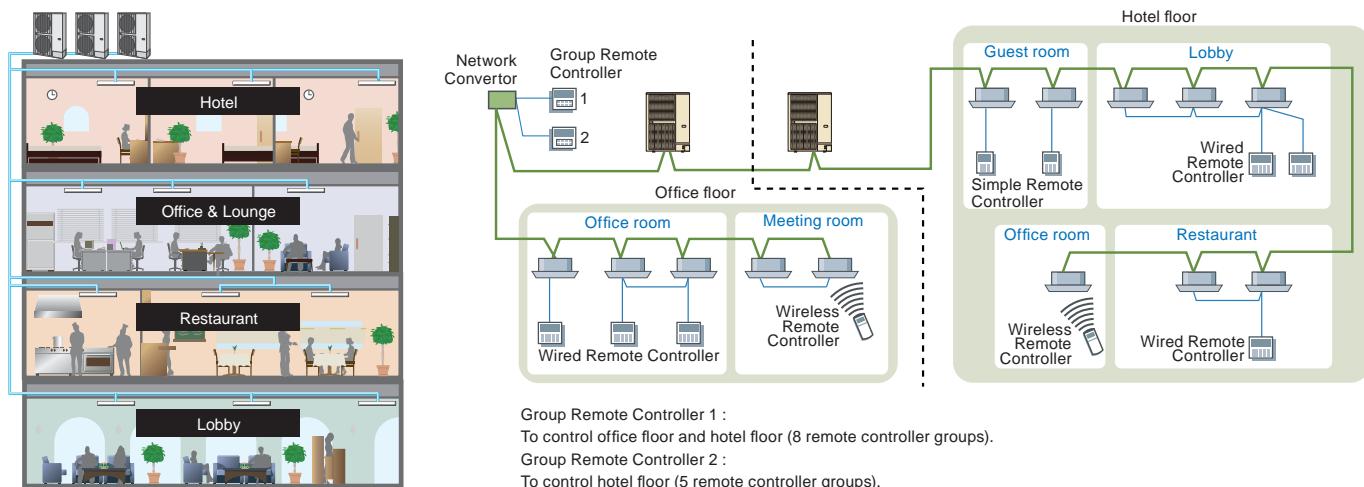
Max. controllable  
**64**  
group R.C. in a VRF  
network system

Max. controllable  
**8**  
remote  
controller groups



## Control up to 8 remote controller groups

- Single Group Remote Controller controls and monitors up to 8 remote controller groups.



- Network Convertor is required to connect Group Remote Controllers to a VRF network system.  
(Network Convertor allows up to 4 Group Remote Controllers)



**Network Convertor**  
UTY-VGGX

## High performance and compact size

ON / OFF, Operating mode, Room temperature and Fan speed setting can be controlled / monitored centrally or individually.



## Built-in weekly timers

The weekly timer is provided as a standard function.

- The timer can be set up for up to 4 times per day. (On / Off, operating mode, set temperature)
- Allows separate settings for each day of the week.

## Specifications

Model No.	UTY-CGG*
Power Source	DC 12V
Dimensions (H x W x D) (mm)	120 x 120 x 18
Weight (g)	200

DC12V is supplied by a network converter.  
G\*: GY(FUJITSU), GG(GENERAL)

## Central Remote Controller

### UTY-DCG\*

Central control of small- and medium-sized buildings and tenants.

- Individual control and monitor of 100 indoor units
- 5 inch TFT color screen
- User friendly view and easy operation
  - Automatic display switching for the number of connected units
  - Operation guidance display
  - Automatic switching of function menu
- Corresponds to 7 different languages like English, Chinese, French, German, Spanish, Russian, Polish.

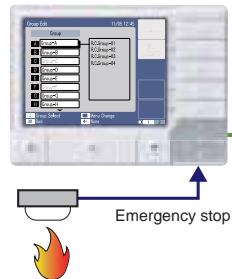
Max. controllable  
100  
Indoor units

Max. controllable  
16  
groups

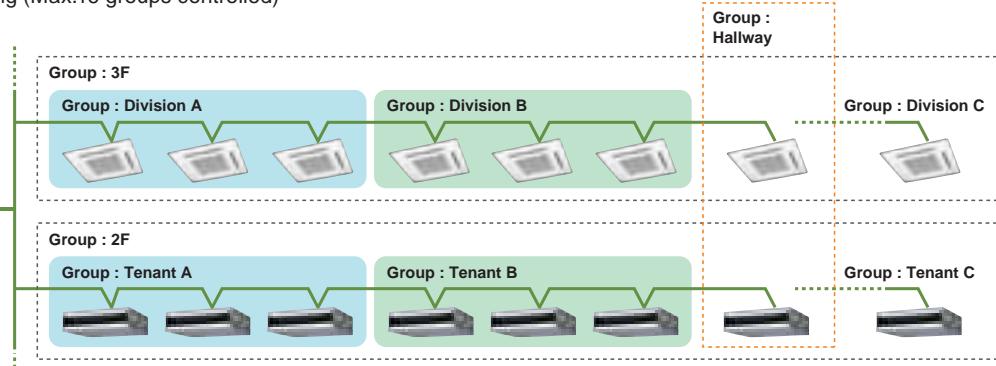


## System overview

- It allows multiple indoor units grouping (Max.16 groups controlled)
- Interlock with external device



- External input / output contact
- Detachable power supply unit

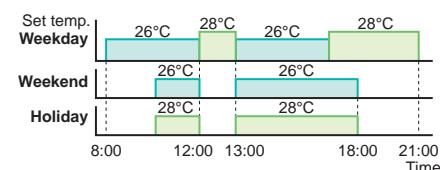


## Functions

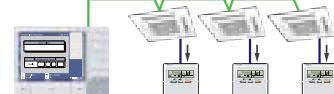
### Diverse control of indoor units

- Individual control
- Remote controller prohibition (All, On/Off, Mode, Temp., Timer, Filter)
- Room temperature set point upper and lower limitation

### Weekly timer



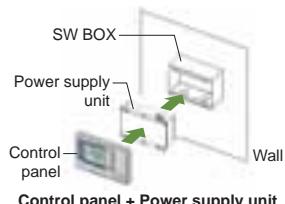
### Automatic clock adjustment



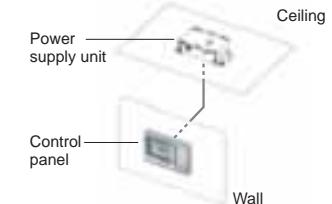
## Easy Installation

- The control panel and power supply unit can be installed separately.
- For flexibility in installation, the Control panel can be built into the wall or fix on the wall.

### Setting pattern 1



### Setting pattern 2



## Specifications

Model No.	UTY-DCG*	
Power Source	Control Panel	Power Supply Unit
Dimensions (H x W x D) (mm)	DC 5 V	100-240V, 50-60Hz, Single phase
Weight (g)	120 x 162 x 26	99 x 135 x 40
PACKING LIST	308	355
Packing List	Control Panel / Power Supply Unit / Connecting cable, etc.	

G\*: GY(FUJITSU), GG(GENERAL)

## Touch Panel Controller

### UTY-DTG\*

- Large-sized 7.5-inch TFT color
- LCD Easy finger touch operation
- Stylish shape and design to suit all application
- No additional component is required for installation
- Up to 400 indoor units can be controlled
- Selectable 2 display types (Icon / List) in monitoring mode
- Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish.

Max. controllable  
**400**  
indoor units



Real size screen image

### Easy operation

- Large and wide-angled LCD is easily viewable even at a distance
- Easy-to-understand icon-driven Graphical User Interface (GUI)
- Wide range of simple-to-understand icons



- Operation can be selected using your finger or the dedicated touch pen by pressing the appropriate on-screen icon
- Up-to-date status display
- Background color identifies current control operation Blue for monitoring, green for operational control
- Flat touch screen is easily cleaned
- Non-glare coating on touch panel controller minimizes fingerprint marking

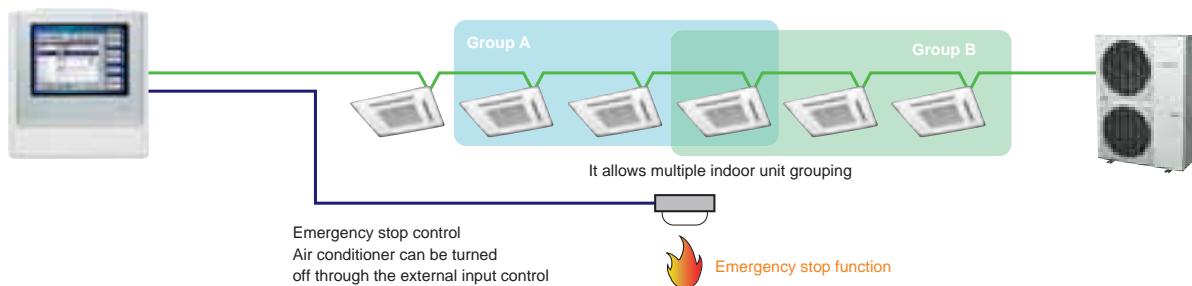
### Versatility

CSV format data edited by PC can be imported to Touch Panel Controller.



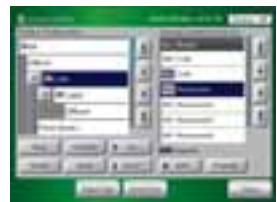
## System overview

Up to 400 indoor units can be controlled



## Functions

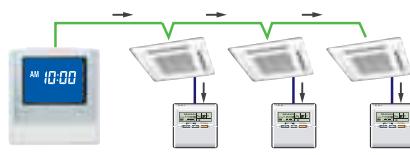
- Up to 400 indoor units can be controlled
- It allows multiple indoor units grouping
- Schedule timer function is standard (20 patterns per day)
- Emergency stop function (through the external input control)
- Temperature upper and lower limit setting
- The clock of each indoor unit correct setting



Individual control      Flexible grouping

### Automatic clock adjustment

The time setting of each controller can be set in batch automatically.



Schedule control      Indoor units operation monitoring

## Easy installation & maintenance

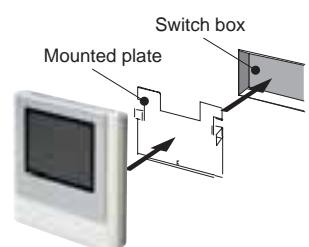
Touch Panel Controller is easily mounted to the wall. Flat back surface allows to be installed wherever it is needed.

- Correctable mechanism for tilting (horizontal) after the installation of the body

No additional component is required for installation

- There is no need for the installation space of power supply adaptor and transmission adaptor etc.

Easy-to-remove front cover



## Specifications

Model No.	UTY-DTG*
Power Source	100-240V 50/60Hz
Dimensions (H x W x D) (mm)	260 x 246 x 54
Weight (g)	2,150
Interface	USB 2.0

G\*: GY(FUJITSU), GG(GENERAL)

## System Controller

Software

### UTY-APGX

**System Controller** realizes the advanced integrated monitoring & control of VRF network system from small scale buildings to large scale buildings.

- Up to a maximum of 4 VRF network systems, 1600 indoor units, and 400 outdoor units can be controlled.
- Supports VRF S series, V series, V-II series and J-II series.
- In addition to air conditioning precision control function, central remote control, electricity charge calculation, schedule management, and energy saving functions are strengthened and building manager and owner needs are met.
- Corresponds to 7 different languages (English, Chinese, French, German, Spanish, Russian, Polish)

Max. controllable  
**4**  
VRF network systems

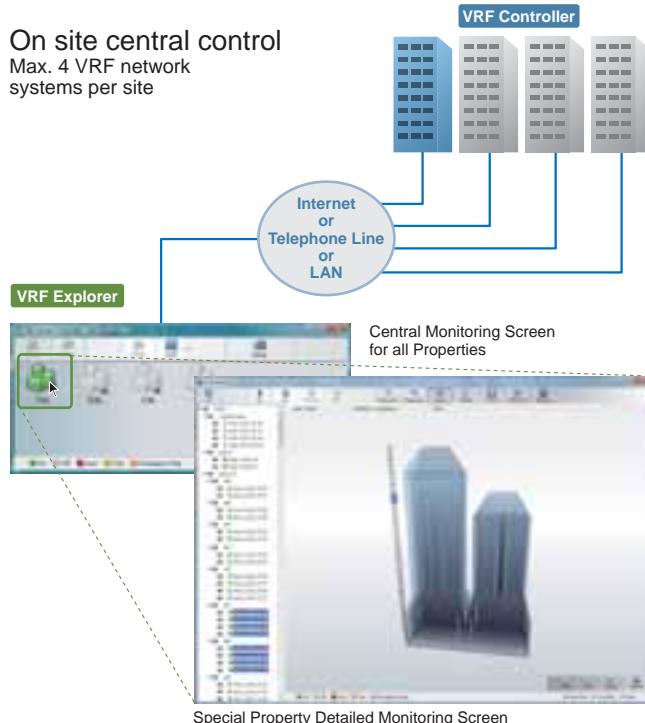
Max. controllable  
**400**  
outdoor units

Max. controllable  
**1,600**  
indoor units



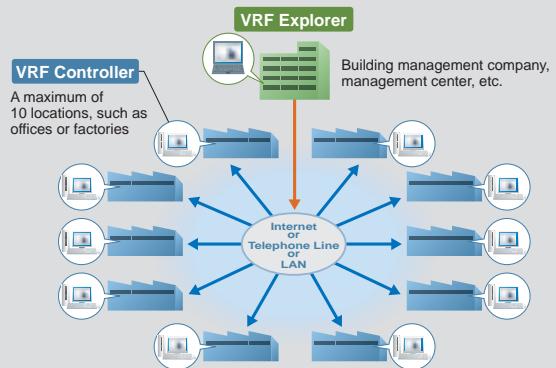
## Remote centralized control

System Controller may be used on site or remotely over various networks for remote central control. System Controller requires 2 softwares working together. VRF Controller runs on site and communicate with VRF system. VRF Explorer runs remotely and provides user interface and communicate with the VRF Controller. VRF Controller and VRF Explorer program may run in a single PC or in different PCs separated by network. By using VRF Explorer software, one PC can perform central control of 10 VRF system sites with max. 20 buildings per site.

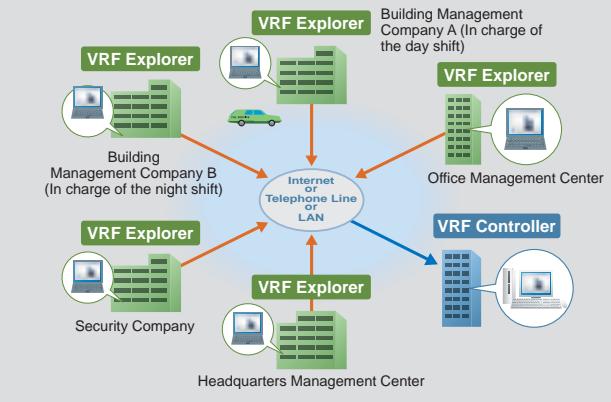


### Remote central control

1 VRF Explorer can control or monitor up to 10 sites.



1 VRF Controller can be monitored from any number of VRF Explorers (Up to 5 connections simultaneously).



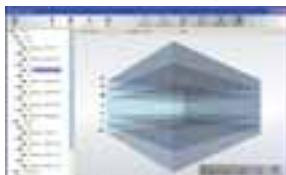
## User friendly view and operation

### Monitoring located site



Monitor mode (Site)

### Main operation monitoring screen



Monitor mode (Building)

### Operation monitoring of each site



Monitor mode (Floor)



Monitor mode (List)

### Management functions



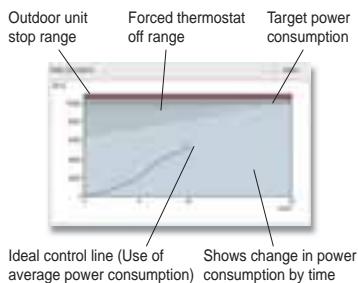
Schedule setting

## Functions

### Energy saving management Option UTY-PEGX:software

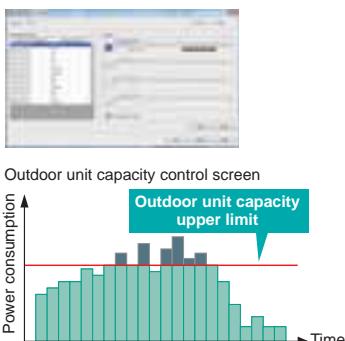
#### Peak cut operation

Controls overall operation while maintaining comfort according to the overall power consumption target value.



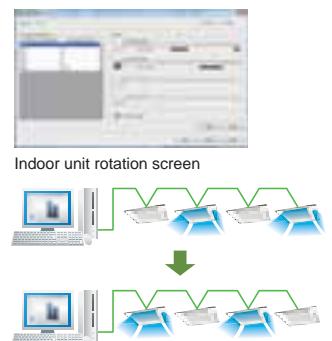
#### Outdoor unit capacity save

Sets an upper limit of outdoor unit capacity and performs capacity save operation at peak times.



#### Indoor unit rotation operation

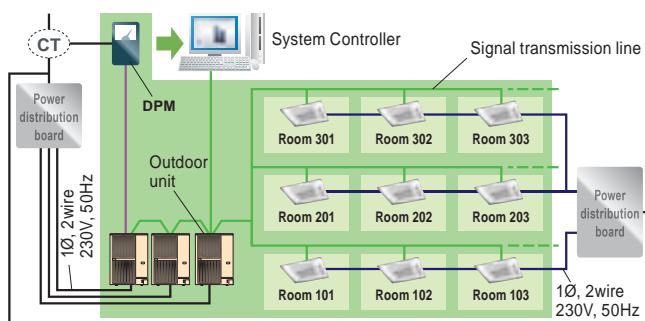
Reduces annual power consumption by operating indoor units in rotation.



### Electricity charge apportionment

Apportions the power used by indoor and outdoor units and automatically calculates the electricity charge for each tenant. When you want to calculate the power used during a certain period in hotels, etc., computation linked with an electric meter is also possible. (Option)

#### Billing management for users for a set period of time, such as for hotels Option



### Others

- Batched stop
- Divers control of indoor units
- Operating & control record
- Schedule control
- Error display & E-mail notification
- Prohibition setting

## Specifications

Model No.	UTY-APGX
Personal Computer	AT compatible machine that runs Microsoft® Windows®
Operating System	Microsoft® Windows® XP Professional (Service Pack 3 or later / English version), Microsoft® Windows® Vista® Home Premium, Business (Service Pack 2 or later / Corresponds to 7 different languages.*), Microsoft® Windows® 7 Professional (64-bit is not supported. / Corresponds to 7 different languages.*) *English, Chinese, French, German, Spanish, Russian, Polish
CPU	Intel® Pentium® / Celeron 2 GHz (VRF Controller), 1 GHz (VRF Explorer) or higher
HDD	40 GB or more of free space (5 GB for VRF Explorer PC)
Memory	2 GB or more (VRF Controller), 1 GB or more (VRF Explorer)
Interface	USB port is required for each of the following for Server PC ; • Wibu Key (Software protection key) • Echelon® U10 USB Network Interface (Required for each VRF Network) Ethernet port is required for remote connection using internet.
Accelerator	Requires the internal graphics accelerator be compatible with Microsoft® DirectX® 9.0
Other Software Required	Adobe® Reader® 9.0 or later

#### PACKING LIST

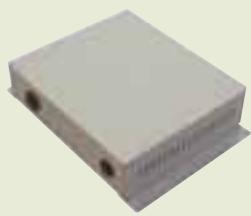
Wibu Key	Includes the software for System Controller. Both VRF Controller and VRF Explorer software is included.
CD-ROM	Software protection key to be inserted in a USB slot running System Controller. System Controller may only run on a PC with Wibu Key. Remote VRF Explorer software does not require Wibu Key.

Personal computer must be field supplied. U10 USB Network Interface must be field supplied. Contact Echelon® Corporation or its local sales representative for detail.  
Product Name : U10 USB Network Interface - TP/FT-10 Channel Model Number: 75010R

## Network Convertor

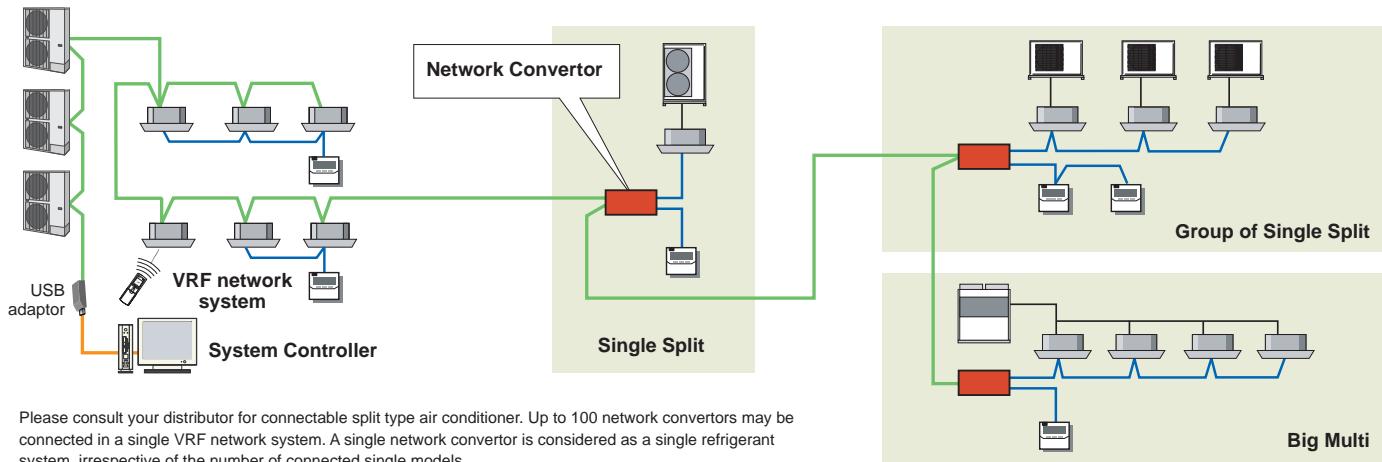
### UTY-VGGX

- This network convertor is to be used for connecting single split system or group remote controller with the VRF network system.
- Please select the function by switching the dip switch during the installation.



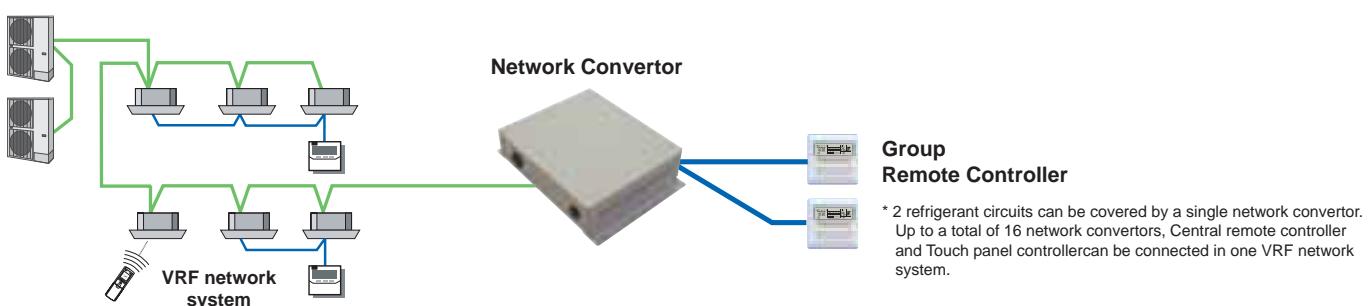
## Installation example

- Split type systems can be controlled from a central remote controller or PC controller through connection to the VRF's network convertor.
- Standard remote controller and central remote controller provide On / Off control, master control, temperature and fan control, etc.
- A single network convertor can be used to connect and control up to 16 single units.



## Used for connecting Group Remote Controller

4 group remote controllers can be connected to a single Network convertor.



## Specifications

Model No.	UTY-VGGX
Power Source	50-60Hz 220-240V
Power Consumption (W)	8.5
Dimensions (H X W X D) (mm)	67 x 288 x 211
Weight (g)	1,500

Model No.	UTY-VLGX
Power Source	220-240V 50/60Hz
Power Consumption (W)	4.5
Dimensions (H X W X D) (mm)	67 x 288 x 211
Weight (g)	1,500

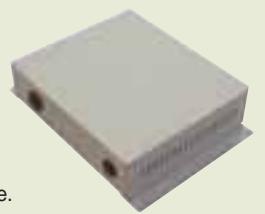
## Network Convertor for LONWORKS®

### UTY-VLGX

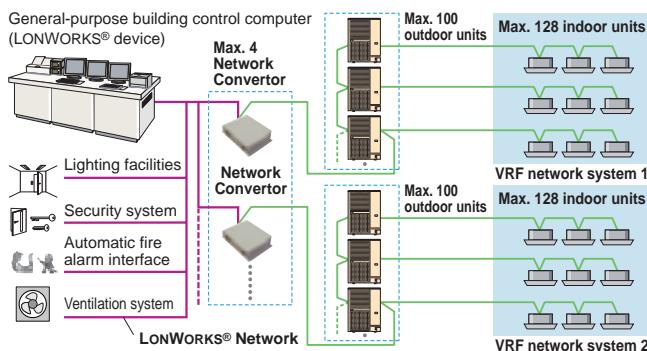
- For connection between VRF network system and a LONWORKS® open network for management of small to medium-sized BMS and VRF network system.
- The unit permits central monitoring and control of a VRF network system from a BMS through a LONWORKS® interface.
- Up to 128 Indoor units can be connected to one Network Convertor for LONWORKS®

Max. controllable  
**4**  
Units to BMS

Max. controllable  
**128**  
indoor units



### Installation example



### Transmission specifications (BMS side)

Transmission speed	78kbps
Transceiver	FT-X1 (Echelon® Corporation)
Transmission way form	Free topology
Terminal resistor	None (It attaches at the terminal of a network.)

## BACnet® Gateway

Software

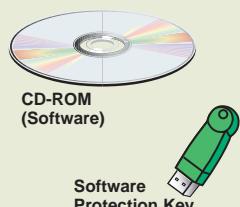
### UTY-ABGX

- The VRF network system can be incorporated into a Building Management System.
- Enables central control of up to 1,600 indoor units through BACnet®, a global standard for open networks.
- Conforms to ANSI / ASHRAE Standards® 135-2004 BACnet® Application Specific Controller (B-ASC) BACnet® / IP over Ethernet.
- Connects up to 4 VRF network systems (1,600 indoor units / 400 outdoor units) per gateway.
- Supports VRF S/V series, V-II series and J-II series

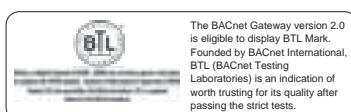
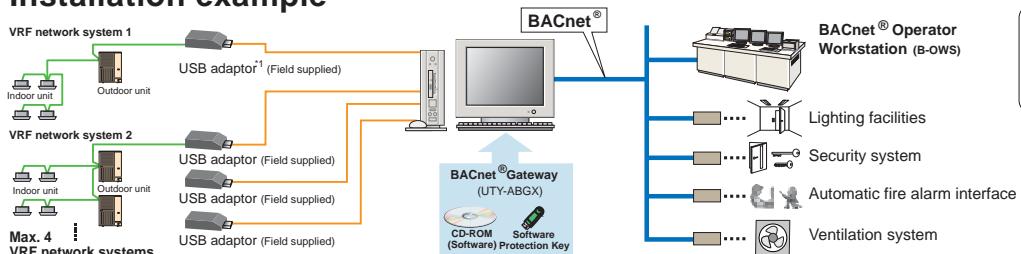
Max. controllable  
**4**  
VRF network systems

Max. controllable  
**400**  
outdoor units

Max. controllable  
**1,600**  
indoor units



### Installation example



■ = BACnet® Gateway for each system.  
— = USB cable  
— = Transmission line (VRF Network)  
— = Ethernet

\*1: USB adaptor is U10 USB Network Interface of Echelon® Corporation.

## Specifications

Model No.	UTY-ABGX
Personal Computer	AT compatible machine that runs Microsoft® Windows®
Operating System	Microsoft® Windows® XP Professional (Service Pack 3 or later / Corresponds to 7 different languages.*) Microsoft® Windows® Vista® Home Premium, Business (Service Pack 2 or later / Corresponds to 7 different languages.*) Microsoft® Windows® 7 Home Premium, Professional (Corresponds to 7 different languages.*) *English, Chinese, French, German, Spanish, Russian, Polish *64-bit version of Windows® are not supported.
CPU	Intel® Pentium® / Celeron®, AMD Athlon / Duron processor 2 GHz or higher
HDD	40 GB or more of free space
Memory	2 GB or more
Interface	USB port (x 2-5) is required Ethernet port is required
Other Software Required	Adobe® Reader® 9.0 or later

### PACKING LIST

Packing List CD-ROM / Wibu Key

Personal computer must be field supplied. U10 USB Network Interface must be field supplied. Contact Echelon® Corporation or its local sales representative for detail.  
Product Name : U10 USB Network Interface - TP/FT-10 Channel Model Number : 75010R

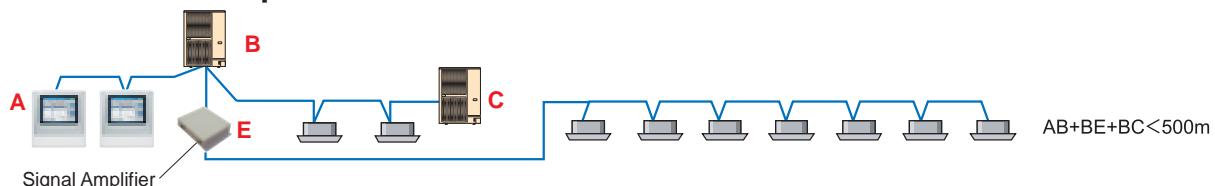
## Signal Amplifier

### UTY-VSGX

- Transmission Line length can be extended up to 3,600m for with multiple Signal Amplifiers.
- Up to 8 signal amplifiers can be installed in a VRF network system.
- A signal amplifier is required,
  - (1) When the total wiring length of the transmission line exceeds 500m.
  - (2) When the total number of units on the transmission line exceeds 64.



### Installation example



## External Switch Controller

### UTY-TEKX

Air conditioner switching can be controlled by connecting other sensor switches

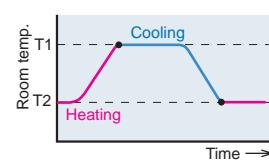
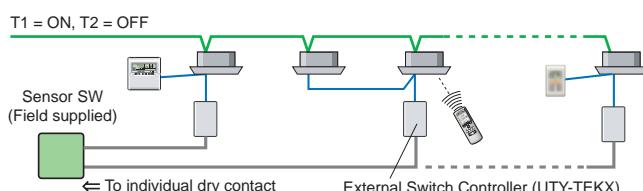
- In combination with a field supply Card-Key Switch or other sensor, the External Switch Controller allows control of the ON / OFF, Room temperature, Fan speed and Master control functions. This makes this product suitable for installations such as hotel rooms.
- Card-key or other sensor switches are available as a field supplied parts.



### Installation example

Auto mode operation, which switches the cooling and the heating automatically, is enabled by using the sensor switch and External Switch Controller.

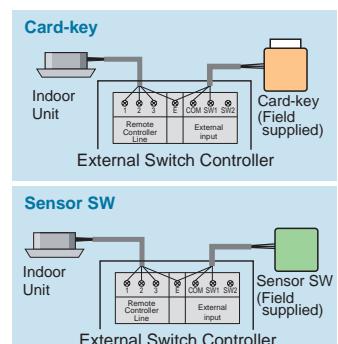
Note: All indoor units will operate in the same mode.



Note 1.  
Please choose a thermosensor switch which can be set up for T1 and T2.

Note 2.  
The remote controller's operation is prior to the auto mode operation.

### Electrical wiring



## Specifications

Model No.	UTY-VSGX
Power Source	220-240V 50/60Hz
Power Consumption (W)	4.5
Dimensions (H X W X D) (mm)	67 x 288 x 211
Weight (g)	1,500

Model No.	UTY-TEKX
Power Source	DC 12V
Dimensions (H X W X D) (mm)	120 x 75 x 30
Weight (g)	90
DC12V is supplied by the indoor unit.	

## Service Tool

Software

### UTY-ASGX

Extensive monitoring and analysis functions for installation and maintenance

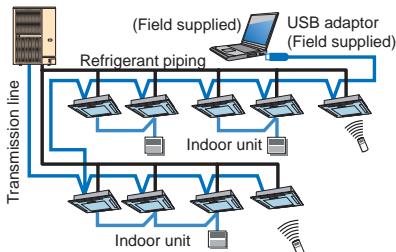
- Operation status can be checked and analyzed to detect even the smallest abnormalities
- Storage of data on system operation status on a PC allows access even from off site.
- Up to 400 indoor units (a single VRF network system) can be controlled and monitored for large scale buildings or hotels
- This software can be connected to any point of transmission line with USB adaptor (field supplied).
- Supports VRF S/V series, V-II series and J-II series.

Max. Monitor and controll  
400 indoor units

Max. Monitor and controll  
100 outdoor units



### Wiring connection



### Functions

#### • Equipment Detail (Diagram)



- Equipment Detail (List)
- Operation History
- Error History
- Remote File Download
- System List
- Commissioning Tool
- Network Topology Analyzer

- Remote setting
- System Time Setting
- Central Release
- Model Name Writer
- Error Memory Reader
- Time Guard Information
- Software Version acquire and display

## Web Monitoring Tool

Software

### UTY-AMGX

#### Product features

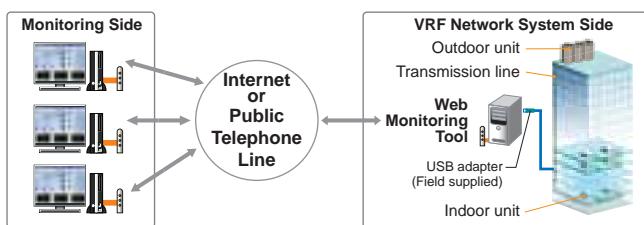
- Troubleshooting is performed by monitoring each air conditioning unit remotely during periodical system checks.
- Error notification can be automatically transmitted to several locations using the internet\*1.
- Requires either a dedicated internet connection or public telephone line.
- Determination of an error occurrence can be made through error warnings and equipment status information obtained from a remote location.
- The monitoring data in a remote side can be optionally downloaded. And, this data can be displayed in offline mode of the service tool.
- Monitoring side computer is not required to install special software, requires only general web browser.
- Supports VRF S/V series, V-II series and J-II series.

VRF network system  
can be supported  
4

1,600  
indoor units  
can be supported

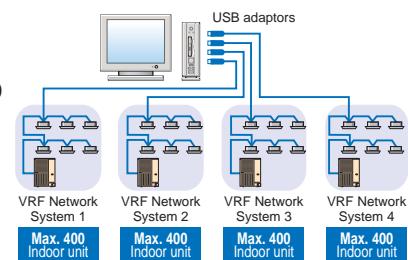
\*1: Use of internet mail system required.

### Web Monitoring System



### Support 4 VRF network systems

USB adaptor (max. 4 adaptors per PC) permit, monitoring of up to 1,600 indoor units. Suitable for large-scale buildings or hotels.



### Specifications

Model No.	UTY-ASGX	UTY-AMGX
Personal Computer	AT compatible machine that runs Microsoft® Windows®	
Operating System	Microsoft® Windows® XP Professional (English version / Service pack 3 or later), Microsoft® Windows® Vista® Home Premium, Business Edition (English version), Microsoft® Windows® 7 Professional (64-bit is not supported. / English version)	
CPU	Intel® Pentium® / Celeron®, AMD AthlonTM / DuronTM 1 GHz or higher	
HDD	10 GB or more of free space	40 GB or more of free space
Memory	1 GB (Vista, 7), 512 MB (XP) or more	1 GB or more
Interface	USB port for U10 USB Network Interface and Software protection key.	USB port (for U10 USB Network Interface Max.4, Software protection key) Following interface is required for remote connection: Public Telephone Line : Modem is required Internet using LAN : Ethernet port is required
Software	Internet Explorer 6.0 or 7.0 or 8.0 / Adobe® Reader® 9.0 or later	
Hardware	CD-ROM drive	

#### PACKING LIST

Packing List	CD-ROM / Wibu Key
--------------	-------------------

Personal computer must be field supplied. U10 USB Network Interface must be field supplied. Contact Echelon® Corporation or its local sales representative for detail.  
Product Name : U10 USB Network Interface - TP/FT-10 Channel Model Number: 75010R

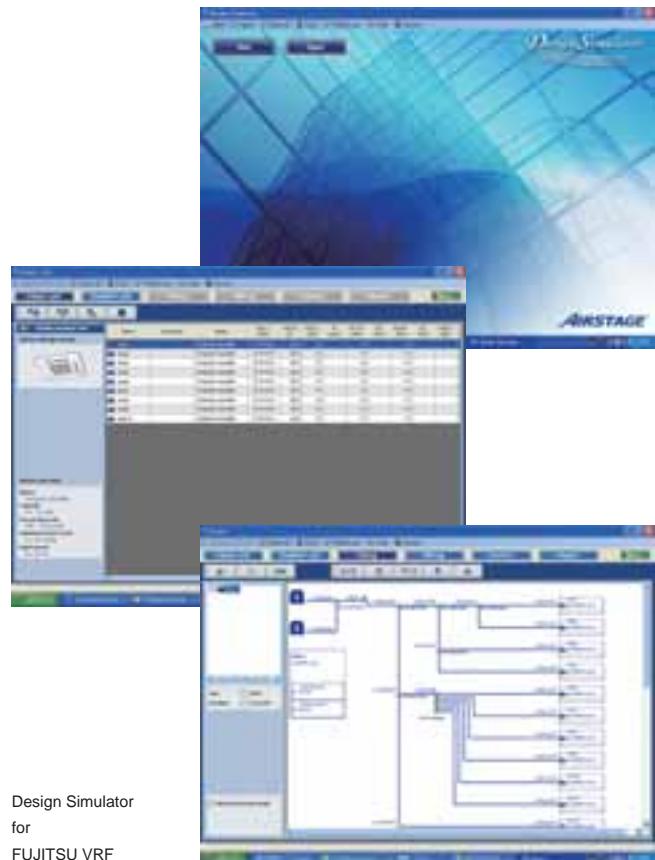
### VRF System Design

#### 1. Quick model selection and design tool "Design Simulator" for VRF

Fujitsu General offers software which quickly performs model selection and creates material for model estimation in the VRF initial design stage. "Design Simulator" has functions which automatically select the proper model for the required capacity, automatically draft piping diagrams and wiring diagrams, and also automatically calculate the additional refrigerant charge amount, automatically generates the reports necessary for estimation. Operation is also easily performed by drag & drop and full-fledged model design estimates can be quickly made.

##### Features

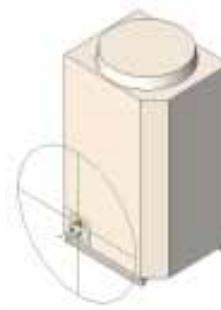
- Automatic model selection of indoor unit and outdoor unit
- Simple drag & drop operation
- Automatic generation of piping diagrams and wiring diagrams
- Automatic calculation of additional refrigerant charge amount
- Auto CAD Data (DXF), Revit Mep Data (RFA) export
- Automatic report generation (Word, Excel)
- Multi-language capability



#### 2. 2D (DXF), 3D (RFA) contents data

Two kinds of model data, DXF data and RFA data, necessary in detailed design are offered.

These data can be procured from the Fujitsu General web site and Design Simulator



RFA data



FGL Web site

## Optional Parts

### Controllers

<b>Wired Remote Controller</b> UTY-RNK*	<b>Simple Remote Controller</b> UTY-RSK* With operation mode	<b>Simple Remote Controller</b> UTY-RHK* Without operation mode
		
<b>Wireless Remote Controller</b> UTY-LNH*	<b>IR Receiver Unit</b> UTB-YWC UTB-TWC  For All Duct type	<b>IR Receiver Kit</b> UTY-LRH*B1  For Cassette type
<b>Group Remote Controller</b> UTY-CGG*	<b>Central Remote Controller</b> UTY-DCG*	<b>Touch Panel Controller</b> UTY-DTG*
		
<b>System Controller</b> <span style="border: 1px solid black; padding: 2px;">Software</span> UTY-APGX		
		

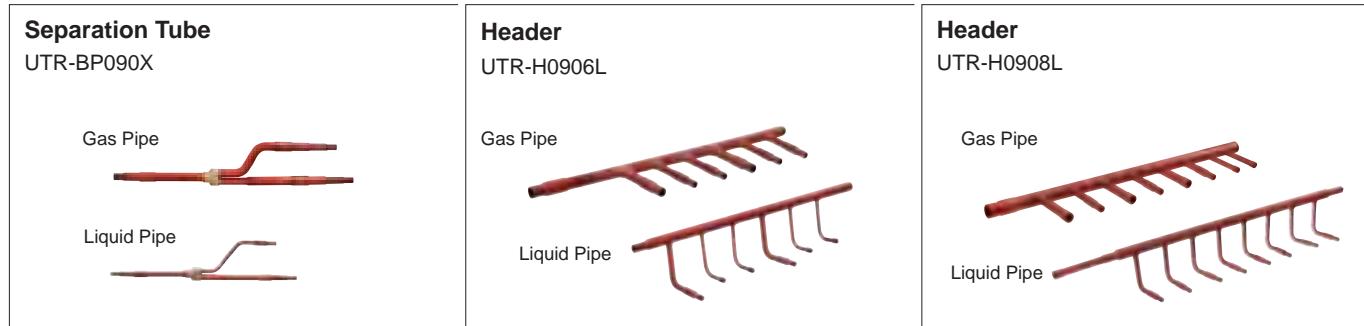
K\*:KY(FUJITSU), KYT(FUJITSU), KG(GENERAL), H\*: HY(FUJITSU), HG(GENERAL), G\*: GY(FUJITSU), GG(GENERAL)

### Convertors / Adaptors

<b>Network Convertor</b> UTY-VGGX	<b>Network Convertor for LONWORKS®</b> UTY-VLGX	<b>BACnet® Gateway</b> <span style="border: 1px solid black; padding: 2px;">Software</span> UTY-ABGX
		 CD-ROM (Software)  Software Protection Key
<b>Signal Amplifier</b> UTY-VSGX	<b>External Switch Controller</b> UTY-TEKX	
		

## Optional Parts

### Connection Tube

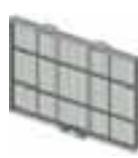
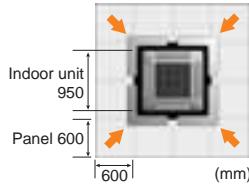
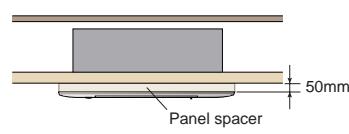
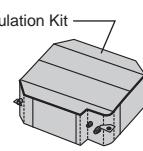


### Header

Model name	3-6 Branches	UTR-H0906L
	3-8 Branches	UTR-H0908L

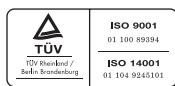
## Others

Indoor unit type		Compact Duct	Slim Duct	Low Static Duct	Duct	High Static Duct	Compact Cassette	Slim Cassette	Cassette	Floor / Ceiling	Ceiling	Compact Wall Mounted	Wall Mounted
Item	Flange	Round	-	-	 UTD-RF204	 UTD-RF204	-	-	-	-	 UTD-RF204	-	-
Remote Sensor Unit	Square	-	-	 UTD-SF045T	 UTD-SF045T	-	-	-	-	-	-	-	-
		UTD-RS100	UTD-RS100	UTD-RS100	UTD-RS100	UTD-RS100	-	-	-	-	-	-	-
Long-Life Filter	-	-	 UTD-LF25NA	 UTD-LF25NA	 UTD-LF60KA	-	-	-	-	-	-	-	-
Auto Louver Grille Kit	-	 UTD-GXSA-W UTD-GXSB-W UTD-GXSC-W	-	-	-	-	-	-	-	-	-	-	-
Drain Pump Unit	-	 UTZ-PX1BBA	-	 UTZ-PX1NBA	 UTZ-PX1NBA	-	-	-	-	 UTR-DPB24T	-	-	-
Wide Panel	-	-	-	-	-	-	 UTG-AGYA-W	 UTG-AGYA-W	-	-	-	-	-
Air Outlet Shutter Plate	-	-	-	-	-	 UTR-YDZB	 UTR-YDZC	 UTR-YDZC	-	-	-	-	-
Panel Spacer	-	-	-	-	-	-	 UTG-BGYA-W	 UTG-BGYA-W	-	-	-	-	-
Grill Kit	-	-	-	-	-	 UTG-UFYC-W UTG-UFGC-W	 UTG-UGYA-W UTG-UGGA-W	 UTG-UGYA-W UTG-UGGA-W	-	-	-	-	-
Insulation Kit for High Humidity	-	-	-	-	-	 UTZ-KXGC	 UTZ-KXGB	 UTZ-KXGA	-	-	-	-	-
Fresh Air Intake Kit	-	-	-	-	-	 UTZ-VXAA	 UTZ-VXGA	 UTZ-VXGA	-	-	-	-	-
EV Kit	-	-	-	-	-	-	-	-	-	-	 UTR-EV09XB UTR-EV14XB	-	-

<p><b>Flange (Round)</b> UTD-RF204 For Low Static Pressure Duct type / Duct type / Ceiling type</p> 	<p><b>Flange (Square)</b> UTD-SF045T For Low Static Pressure Duct type / Duct type</p> 	<p><b>Remote Sensor Unit</b> UTD-RS100 For All Duct type</p> <p>New amenity space can be offered by installing the Remote sensor.</p> 
<p><b>Long-Life Filter</b> UTD-LF25NA For Low Static Pressure Duct type / Duct type</p> 	<p><b>Long-Life Filter</b> UTD-LF60KA For High Static Pressure Duct type</p> 	<p><b>Auto Louver Grille Kit</b> UTD-GXSA-W (for ARXD07/09/12/14LATH) UTD-GXSB-W (for ARXD18LATH) UTD-GXSC-W (for ARXD24LATH) For Slim Duct type</p> 
<p><b>Drain Pump Unit</b> UTZ-PX1BBA For Compact Duct type</p> <p>UTZ-PX1NBA For Low Static Pressure Duct type / Duct type</p> 	<p><b>Drain Pump Unit</b> UTR-DPB24T For Ceiling type</p> 	<p><b>Wide Panel</b> UTG-AGYA-W For Cassette type</p> 
<p><b>Air Outlet Shutter Plate</b> UTR-YDZB For Compact Cassette type Shuts the air outlet when only using as 3 blow out.</p> 	<p><b>Air Outlet Shutter Plate</b> UTR-YDZC For Cassette type Shuts the air outlet when only using as 3 blow out.</p> 	<p><b>Panel Spacer</b> UTG-BGYA-W For Cassette type</p> 
<p><b>Grille Kit</b> UTG-UFYC-W UTG-UFGC-W For Compact Cassette type</p> 	<p><b>Grille Kit</b> UTG-UGYA-W UTG-UGGA-W For Cassette type</p> 	<p><b>Insulation Kit for High Humidity</b> UTZ-KXGA For Cassette type UTZ-KXGB For Slim Cassette type UTZ-KXGC For Compact Cassette type</p> 
<p><b>Fresh Air Intake Kit</b> UTZ-VXAA For Compact Cassette type</p> 	<p><b>Fresh Air Intake Kit</b> UTZ-VXGA For Cassette type</p> 	<p><b>EV Kit</b> UTR-EV09XB (for AS*E07/09LACH) UTR-EV14XB (for AS*E12/14LACH)</p> <p>For Compact Wall Mounted type (EEV external type)</p> 

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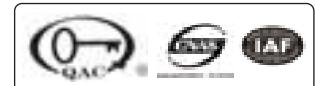
1116, Suenaga, Takatsu-ku, Kawasaki 213-8502, Japan  
<http://www.fujitsu-general.com/>



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Certified number : 272043  
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ISO 14001  
Certified number : 00609E20454R2M  
Fujitsu General Central Air-conditioner (Wuxi) Co., Ltd.

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